

InTCHSolutions

Information & Technology Engineering

TEACH Public Schools

Proposal for:

**Cabling and Basic
Maintenance**

E-rate Form 470# 240011631

Prepared by:

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INTCHSOLUTIONS CORPORATION PROPOSAL FOR CABLING AND BASIC MAINTENANCE FOR TEACH PUBLIC SCHOOLS

1.0 InTCHSolutions (InTeCHSolutions) Corporation

is an employee-owned business, founded in 2016 with the belief of providing high quality consulting I.T and engineering services to clients ranging from corporate enterprises to education. We are a bonded CA state licensed C-7 contractor (License CA 1101216) and USAC service provider (SPIN Number: 143053966). Our staff have over 30 years of experience and provide expertise services ranging from I.T. Network Infrastructure and Architecture design to implementation, Firewall Security, E-Rate Consulting, and C-7 Cabling/Fiber Installations. All while providing white glove services following industry standards. Our specialization is finding a solution to any technical related problem, fast agile deployment and installation, and documentation of our service deliverables. We utilize an engineering and systematic sigma six and agile process to complete our end goals and projects.

Our staff and company belief, in addition, to top tier customer service is to give back to the community and support out-reach programs, non-profit organizations, and educational organizations.

2.0 OVERVIEW

CAT6 cabling installation is about combining installation, design, and problem-solving abilities ensure all cable drops from the IDF to the end point devices using the copper line is fully functional, tested and verified. In addition, TEACH PUBLIC SCHOOL is requesting Basic Maintenance of Internal Connections, to perform basic maintenance such as and not limited to: bug fixes, security patches, and technical support. At InTCHSolutions, our consultants, engineers, and technicians would like to work with TEACH Public Schools and provide installation services and basic maintenance.

3.0 Cover Letter

Date: 02/10/2024

From: Brandon Nguyen InTCHSolutions (InTeCHSolution) P: 949.998.4143 C: 562.607.8829 BNguyen@InTCHSolutions.com	To: Teach Public Schools 10045 S. Western Ave Los Angeles, CA 90047 erate@teachps.org
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Dear Teach Public Schools,

Thank you for giving InTCHSolutions (InTeCHSolutions) the opportunity to submit a proposal for Request for Proposal for Cabling and Basic Internal Maintenance.

InTCHSolutions has a rich history of delivering exceptional results in the field of information technology. One of the key strengths of our firm lies in our personnel. Our team comprises a staff with diverse backgrounds and expertise, having over 30 years of industry experience in the field of I.T. network design, architecture, implementation, and C-7 cabling/fiber ranging from small to large scale projects from education to commercial industry following enterprise standards.

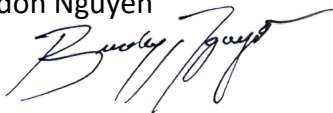
The proposed team has years of experience with a variety of enterprise level network infrastructure working with systems such as but not limited to CISCO, MERAKI, JUNIPER NETWORKS, RUCKUS, ARUBA, FORTIGATE, and PALO ALTO.

For this project, our firm is working closely together to plan, implement, maintain, and perform all the work identified in the RFP to ensure the project and/or network is complete and seamless.

Thank you again for your time and reviewing this proposal. Please feel free to reach out for any further questions or concerns.

Sincerely,

Brandon Nguyen



Consultant Engineer

4.0 Supporting Documents

4.1 – FCC GREEN LIGHT STATUS

The screenshot displays the FCC Registration System (CORES) interface. At the top, the FCC logo and "Federal Communications Commission" are on the left, and the "Commission Registration System (CORES)" title is in the center. On the right, there are links for "Associate Username to FRN", "Manage Existing FRNs & FRN Financial", "Register New FRN", "Reset FRN Password", and "Search for FRN". Below this is a yellow "FCC Registration" banner. The main content area shows the breadcrumb "FCC > FCC Registration > Manage Existing FRNs > FRN Financial" and the user "Logged In As: bnguyen@intchsolutions.com | Logout". The "FRN Financial" section includes a "Manage FRNs" link and a table with one entry for InTCHSolutions Corporation with a "Green Light" status. A "Go Back" link is at the bottom. A footer section contains "Customer Service" links and contact information.

FCC Registration

FCC > FCC Registration > Manage Existing FRNs > FRN Financial

Logged In As: bnguyen@intchsolutions.com | Logout

FRN Financial

Manage FRNs

FRN Financial

Show 10 entries

FRN	FRN Name	Red Light Status	Action
0033335126	InTCHSolutions Corporation	Green Light	View/Make Payments

Showing 1 to 1 of 1 entries

Previous 1 Next

[Go Back](#)

Customer Service

[Help](#) [Frequently Asked Questions](#) [FCC Privacy Policy](#) [Privacy Act Statement](#) [FCC Home Page](#)

For assistance, please submit a help request at <https://www.fcc.gov/wireless/available-support-services> or call 877-480-3201 (Mon.-Fri. 8 a.m.-6 p.m. ET).

Current Version: 3.1.0

Figure 1: FCC Green Light Status

4.2 – USAC SPIN NUMBER

Records / Service Providers

#143053966 - InTCHSolutions

CREATE A NEW USER

ADD OR REMOVE EXISTING USERS

MANAGE SERVICE PROVIDER USE...

...

Summary

Customer Service Cases

Consulting Firms

FCC Forms

FRN Appeals

News

Related Actions

Organization Details

Name

InTCHSolutions

Doing Business As

InTCHSolutions

SPIN

143053966

Organization Type

Service Provider Organization

DUNS Number

094268496

Status

Active

FCC Form 473/SPAC Filed

N/A


Figure 2: USAC SPIN NUMBER

4.3 – C-7 License – 1101216

The screenshot displays the California State License Board (CSLB) website. The top navigation bar includes links for License Check, Subscribe, About CSLB, Public Meetings, and Contact Us. A language selection dropdown is set to English. Below the navigation bar, the CSLB logo and the Department of Consumer Affairs logo are visible, along with a horizontal menu for Consumers, Licensees, Applicants, Online Services, Media, and Resources. The main content area shows the path: Home | Online Services | Personnel Search Results | Personnel License List. The title is "Personnel License List for NGUYEN, BRANDON MAI". A note states: "Click on the license number to see a more detailed page of information on that person." Below this, a section titled "Licenses Currently Associated With" lists the following details: License # 1101216, Business Name INTCHSOLUTIONS VOLTAGE SY, City LONG BEACH, Association Date 02/07/2023, and Status ACTIVE. To the right, an "Online Services Quick Hits" sidebar lists various links such as "Check a License or HIS Registration", "Find My Licensed Contractor", "Frequently Asked Questions", "Forms and Applications", "Guides and Publications", "CSLB Laws and Regulations", "List of All CSLB Fees", "License Classifications", "Contractor Newsletter", "Application Status", "Application Status (Secured)", "Application Status by Personnel Name", "Application Status by Business Name", and "CSLB Email Login". Below the sidebar, an "Online Services" section features a photo of a construction worker in a hard hat and safety vest, holding a tablet. The footer contains links for Back to Top, Conditions of Use, Privacy Policy, Accessibility, and Accessibility Certification, along with the copyright notice: Copyright © 2024 State of California.

Figure 3: C-7 License - 1101216

4.4 – Active DIR Compliant



State of California
Department Of Industrial Relations

My Registration Dashboard

Brandon N...

[Department of Industrial Relations \(DIR\)](#)

My Dashboard

Select a Registration Type

New

Link Existing Registration

Instructions:

- To transfer an active registration from the old system, click **Link Existing Registration**.
- To start a new application, select from the dropdown menu above and click **New**.
- To revise the existing registration, click **Update**.
- To edit a saved application, click on the registration number. You cannot edit once the application status is "Submitted", "Payment Pending", "In Review", "Expired", "Resubmitted" or "Renewed".
- To renew an application, click **Renew** Link will be available 90-days (60-days for Entertainment Work Permit, 60-days for Public Works contractor registration) before the license expiration date, until the expire date.
- To pay registration fees, click the **Pay Now** link in the Registration # column.
- Car Wash: To complete the registration process, you must print the submitted application or a copy of your email stating your application has been submitted and send it with the [IRS Form 8821](#). Upon receipt of the IRS response, please return to attach the IRS Clearance letter to your application. [IRS form 8821 Instructions](#).

Status Definitions

Reload page

Actions	Business Name / Individual Person	Registration #	Registration Type	Submitted Date	Status	Effective Date	Expiration Date	Payment Status	Balance Due	Exam Passed Date	Reg Dur
Email Application Summary	InTCHSolutions	PW-LR-1001010949	Public Works & Prevailing Wage Contractor Registration	01/16/24	Submitted	01/16/24	06/30/25	Paid / No Balance Due	0.00		
	InTCHSolutions	PW-LR-1001010949	Public Works & Prevailing Wage Contractor Registration	02/07/23	Expired	02/07/23	06/30/23	Paid / No Balance Due	0.00		

For support, contact the [Labor Commissioner's Office](#)

Copyright © 2024 State of California

Figure 4: DIR Compliant Certificate

4.5 – Liability Insurance

ACORD®		CERTIFICATE OF LIABILITY INSURANCE		DATE (MM/DD/YYYY) 11/22/2023			
THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.							
IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).							
PRODUCER TWFG GENERAL AGENCY, LLC SUNGOLD INSURANCE SERVICES 1201 LAKE WOODLANDS DR, STE 4020 WOODLANDS, TX 77380			CONTACT NAME: PHONE (A/C, No, Ext): (619) 576-6900 FAX (A/C, No): E-MAIL: certs@sungoldca.com ADDRESS:				
INSURED INTCHSOLUTIONS CORPORATION 4199 CAMPUS DR, STE 550 IRVINE, CA 92612			INSURER(S) AFFORDING COVERAGE INSURER A: TRAVELERS COMMERCIAL CASUALTY COMPANY INSURER B: SECURITY NATIONAL INSURANCE COMPANY INSURER C: INSURER D: INSURER E: INSURER F:				
COVERAGES			CERTIFICATE NUMBER:		REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.							
INSK LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	680-3T710317	03/29/2023	03/29/2024	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	680-3T710317	03/29/2023	03/29/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$
	UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$ <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE						EACH OCCURRENCE \$ AGGREGATE \$ \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	N/A	SWC1430624	02/16/2023	02/16/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) LOCATION: 4199 CAMPUS DR, STE 550, IRVINE, CA 92612 CERTIFICATE HOLDER NAMED AS ADDITIONAL INSURED AS REQUIRED BY WRITTEN							
CERTIFICATE HOLDER				CANCELLATION			
				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.			
				AUTHORIZED REPRESENTATIVE <i>Deminick Quach</i>			

ACORD 25 (2016/03) The ACORD name and logo are registered marks of ACORD © 1988-2015 ACORD CORPORATION. All rights reserved.

Figure 5: Certificate of Liability Insurance

5.0 OUR PROPOSAL

Teach Public Schools is looking for a qualified firm for cabling and basic maintenance at the following sites as specified in the RFP

1. TEACH Academy of Technologies: 10045 S. Western Ave, Los Angeles, CA 90047
2. TEACH Public Schools Central Office: 10600 S. Western Ave. Los Angeles, CA 90047
3. TEACH Tech Charter High School: 10616 S. Western Ave, Los Angeles, CA 90047
4. TEACH Preparatory Mildred S. Cunningham & Edith H. Morris Elementary: 8505 S. Western Ave, Los Angeles, CA 90047

5.1 Cabling – Project Specification

TEACH public schools is requesting three hundred and fifteen cable (315) drops in total for four schools. Each of the classrooms and offices shall have two (2) data drops along the wall and two (2) data drops in the ceiling for WAPs.

Implementation Parameters:

- The cable shall be punched down using a CAT6 keystone at the IDF and be dropped down to the designated location.
- The cable shall be terminated at the end point through a two-port gang box with a faceplate. For the ceiling drops, a biscuit box will be mounted to the ceiling in such that the access point can be connected.
- The patch cables will be installed to create a connection between the patch panel and Meraki MS225-48LP switch.
- All cables shall be tested, verified, and certified via Fluke Network Cabling Test Tool; a report shall be provided to the clientele on cabling performance.
- Patch panels will be labelled to identify the location of each cable drop.

Please see proposal cost section for pricing

5.2 Basic Maintenance of Internal Connections – Project Specification

TEACH public school is require basic maintenance of internal connections for 120 hours. Support for basic maintenance will include and not limited to bug fixes, security patches, and technical support.

Please see proposal cost section for pricing.

5.3 Proposal Cost

Total cost for all four sites given the number of drops and length of cables.

TABLE I: Cabling Material and Installation Cost

GROUP	TEACH Public Schools - CAT6 Equipment Price List						
	Model Number	Manufacturer	Description	Unit Cost	Quantity	Extended Cost	E-Rate Eligible %
CABLING - CAT6	6P4P24-BL-PBER-AP-NS	BERK-TEK- LEVITON	LANmark-6 Cat 6 Plenum 4-Pair UTP Cable, Blue, 1000 ft., Box Provides Category 6 performance 24 AWG, Inexpensive compact design, Usable bandwidth up to 250 MHZ Capable of transmitting applications such as 1000BASE-T	\$ 231.58	72	\$ 16,673.76	100%
			72,000 feet of cable total for all 4 sites				
	AX105352-EW	BELDEN	KeyConnect Side Entry Box, Plastic, Flush Mount, 1, White, 1 per Package, 1.8 x 2.56 x 1.2 in, Yes	\$ 2.46	158	\$ 388.68	100%
	RVAMJKUBL-B24	BELDEN	REVCONNECT JACK 10GX UT BL 24PK	\$ 215.94	26	\$ 5,614.44	100%
	AX103114	BELDEN	KeyConnect® Empty Modular Patch Panel, 24-Port, Black	\$ 52.60	10	\$ 526.00	100%
			Patch panel is installed at the IDF				
	ATG1001-BU	ALLEN TEL	CAT 6A 10GB CORD 1-FT BLUE	\$ 3.85	158	\$ 608.30	100%
	ATG1003-BU	ALLEN TEL	CAT 6A 10GB CORD 3-FT BLUE	\$ 5.06	158	\$ 799.48	100%
	41080-2WP	LEVITON ELECTRICAL	2 PORT FIELD CONF WALLPLT	\$ 1.45	79	\$ 114.55	100%
	42777-1WA	LEVITON ELECTRICAL	WH SNGL-GNG BACKBOX	\$ 3.59	79	\$ 283.61	100%
INSTALLATION AND LABOR	CAT32HP	ERICO PROD	CLIPCABLECATH P2 INCH - J HOOK - PACK OF 100	\$ 369.34	2	\$ 738.68	100%
	LD10WH8-A	PANDUIT ELECTRICAL	Pan-Way® LD10 series white non-metallic 1-piece hinged low-voltage surface raceway with adhesive backing. Raceway is 8 ft. L x 1.51 W x 0.94 in. H, Length 10 ft.	\$ 2.99	\$ 80.00	\$ 239.20	100%
	Installation/Labor Price List						
	Eligible Components	Installer	Description	Installation Cost per Drop	Quantity	Extended Cost	E-Rate Eligible %
	CAT6 Installation	InTCHSolutions	*All classrooms must have 2 data drops along the wall and 2 data drops in the ceiling for WAPs. Install necessary J-Hooks for any ceiling drops, gang box for wall ports and covers Terminate keystone to the IDF and terminate the end point for WAP Terminate end connection to keystone for any wall drops Connect cable from switch to patch panel	\$ 115.00	315	\$ 36,225.00	100%
	Testing and Verification	InTCHSolutions	Fluke Network Certified - Network Testing and Test Verification report following BELDEN installation standards	\$ -	315	\$ -	100%
Total Cost of Equipment						\$ 25,747.50	
Sales Tax @ (10.25%)						\$ 2,639.12	
Total Cost of Installation/Labor						\$ 36,225.00	
Shipping and Handling						-	
GRAND TOTAL						\$ 64,611.62	

Total cost for 120 hours of basic maintenance of internal connections.

TABLE II: Basic Internal Connection Maintenance

GROUP	TEACH Public Schools - Basic Maintenance of Internal Connections						
	Model Number	Manufacturer	Description	HOURLY RATE	HOURS	Extended Cost	E-Rate Eligible %
BASIC MAINTENANCE OF INTERNAL CONNECTIONS	MX100-HW	CISCO	Firewall				
	MERAKI MS225-48LP	CISCO	Switch				
	MERAKI MR36	CISCO	Access Point				
	Basic Maintence of Internal Connections	InTCHSolutions	Basic Maintence of Internal Connection for MX100-HW, MERAKI MS225-48LP, MERAKI MR36	\$ 120.00	120	\$ 14,400.00	100%
						Total Cost	\$ 14,400.00
						Sales Tax @ (10.25%)	-
						Shipping and Handling	-
						GRAND TOTAL	\$ 14,400.00

5.4 Implementation Plan – High Level

A comprehensive project implementation plan is essential for the successful execution of our project. This plan, to be published at the project's onset, will delineate the project's objectives, deliverables, risk management strategy, and change management procedures. Below is a detailed breakdown of the key components to be included:

1. Scope of Work:

- A succinct summary of project objectives aligned with the request for proposal, final bid award details, and any relevant information submissions.
- Clear identification of items falling outside the project scope.

2. Deliverables

- A meticulous list of all project deliverables, encompassing both the project's overall scope and specific hardware execution requirements.
- Inclusion of documentation formats (digital or hard copy) such as test results and warranty information.

3. Schedule

- Development of a project schedule to effectively plan and manage execution.
- Utilization of Gantt charts to schedule and track tasks and milestones.
- Collaborative scheduling with district project sponsors to minimize service impact.

4. Project Management Methodology

- Appointment of a dedicated project manager responsible for team management, schedule coordination, budget oversight, communication, risk management, and progress reporting.
- Adherence to industry-standard methodologies such as Waterfall and Agile-Scrum frameworks.
- Phased project approach, encompassing initiation, execution, control, and closure phases.

5. Communication Plan

- Maintaining open communication channels between project sponsors, the project manager, and team members through phone calls, emails, and collaboration tools like Microsoft Teams.
- Establishment of a project file repository, such as Microsoft SharePoint, for efficient storage and exchange of electronic project-related files.
- Maintenance of a comprehensive project risk and issues log to document and communicate any potential risks or issues.
- Development of an escalation plan for prompt resolution of urgent risks/issues by team members or the project manager to the district replacement project owner and/or sponsors.

6. Project Change Management Plan

- Implementation of a robust change management process, collaboratively designed by the project manager and district replacement project sponsors, to handle any requested or required changes affecting project scope, schedule, or budget.

- Inclusion of processes for documenting, presenting, reviewing, approving, and executing changes.
- Execution of project changes only after receiving written approval from the District project owner and/or sponsor.

7. Project Closure

- Execution of a comprehensive project closure phase, incorporating:
 - Test results
 - Warranty information
 - Acceptance of project deliverables
 - Final billing procedures

This refined implementation plan aims to provide clarity, efficiency, and a structured approach to ensure the successful execution and closure of the project.

5.5 Project Execution Plan – High Level

Our Project Execution Plan unfolds with a dynamic kickoff meeting, aligning project stakeholders on objectives and schedules. Team formation includes clear roles, contacts, and communication plans. The plan emphasizes detailed task finalization, a site survey, and strategic equipment procurement and staging. Delivery, site preparation, and installation/testing phases follow systematically, with a crucial step for verification. The plan concludes with meticulous documentation and a final closure meeting, ensuring transparent communication and client satisfaction. This streamlined approach guarantees successful and well-documented project execution.

1. Project Kickoff:

- Initiate project with a kickoff meeting facilitated by the project manager, team members, and sponsors.
- Review project objectives, plan, and present a high-level project schedule.
- Formulate the project team, define resource responsibilities, establish a project team contact list, and review communication & escalation plans.
- Finalize and publish implementation tasks and schedules for clarity and alignment.

2. Site Survey and Delivery:

- Conduct a site survey/path verification to identify existing systems and document relevant information.
- Equipment Procurement and Staging:
 - Procure necessary equipment, inventory items, and asset tag/label as required.
 - Stage equipment securely for delivery.
- Deliver equipment and store it securely, ensuring proper staging for the upcoming installation.

3. Site Preparation:

- Prepare each site for equipment replacement, considering logistics and potential site-specific requirements.

4. Installation and Verification:

- Install new equipment, label, conduct testing procedures, and remove/replace existing equipment following customer disposal processes.
- Implement a dedicated step for rigorous testing and verification to ensure the seamless integration and functionality of the new equipment.

5. Documentation and Closure:

- Document all aspects of the project, including test results, configurations, and any relevant information.
- Hold a final closure meeting with the customer to present final deliverables and provide a brief closure overview.
- Execute comprehensive project closure procedures, ensuring all deliverables are accepted and verified, and finalize any remaining administrative tasks.

5.6 Projected Schedule

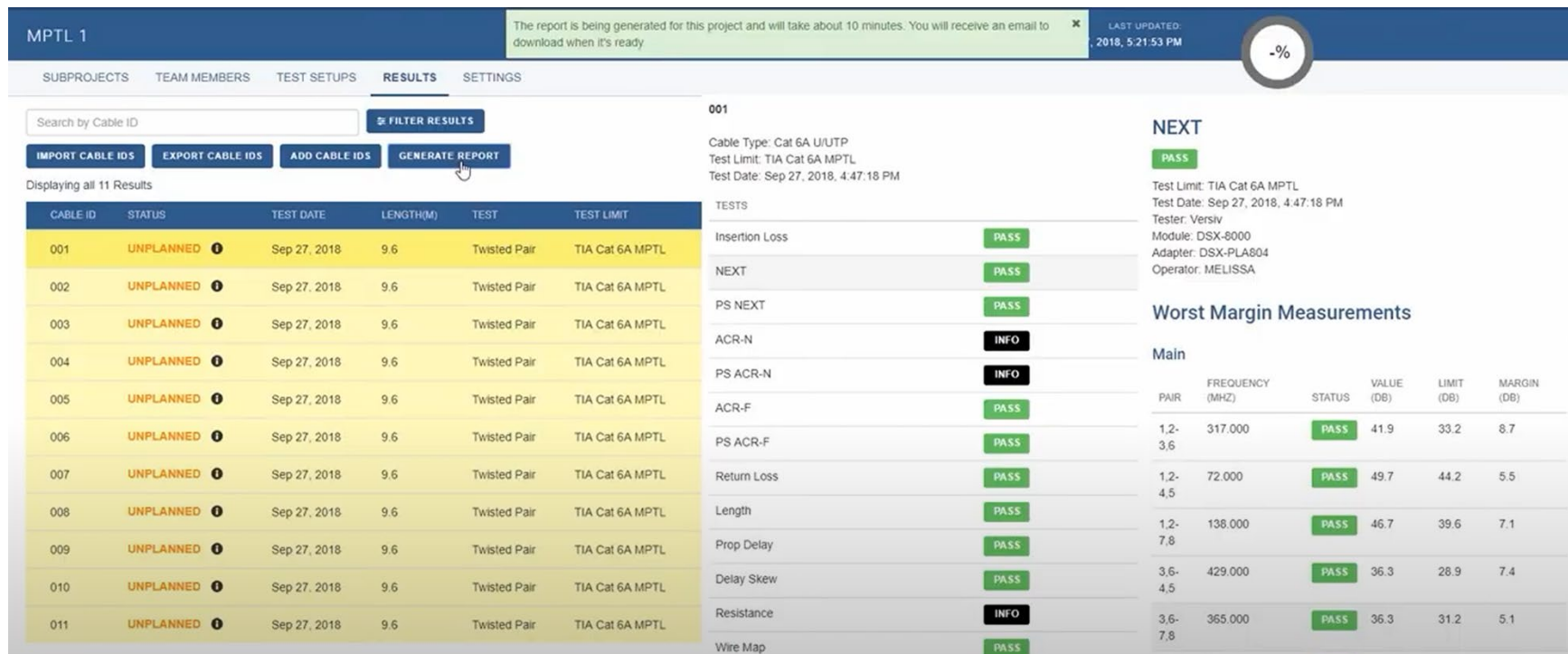
The E-Rate Network Switch Project Schedule

Please refer to Appendix A. for detailed Project Schedule, dates are used as an example.

5.7 Deliverables and Documentation – Examples

All cabling projects will come with the following deliverables:

- Fluke Networks LinkWare - Cabling Certification Report
 - Certification report can be used to plan future projects.
 - The report shall include lengths, health of the cable, the locations from IDF to respective rooms, and





Cable ID: 52272

Date / Time: 03/07/2017 05:19:01 PM
Headroom **15.0 dB (NEXT 45-78)**
Test Limit: **TIA Cat 6 Channel**
Cable Type: Cat 6 U/UTP
NVP: 69.0%

Operator: Your Name
Software Version: 2.7800
Limits Version: 1.9500
Calibration Date:
Main (Tester): 11/01/2016
Remote (Tester): 11/01/2016

Test Summary: PASS

Model: DTX-1800
Main S/N: 3178039
Remote S/N: 3178046
Main Adapter: DTX-CHA002
Remote Adapter: DTX-CHA002

Length (ft), Limit 328	[Pair 12]	50
Prop. Delay (ns), Limit 555	[Pair 36]	76
Delay Skew (ns), Limit 50	[Pair 36]	3
Resistance (ohms)	[Pair 36]	2.6

Insertion Loss Margin (dB)	[Pair 36]	30.3
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	35.9

Worst Case Margin Worst Case Value

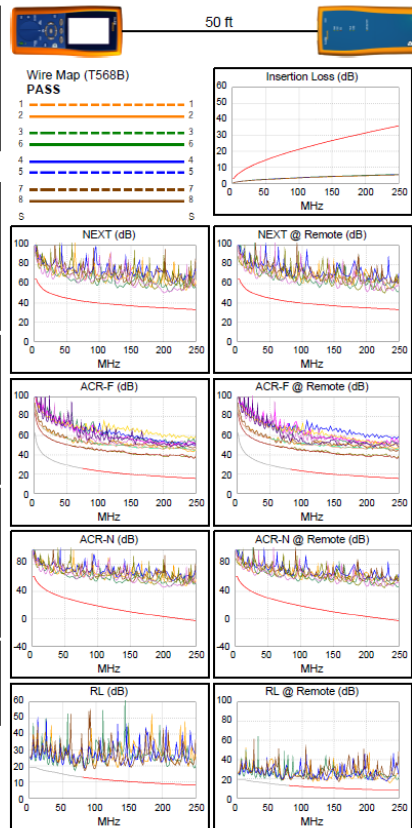
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-78	36-78	45-78	36-78
NEXT (dB)	15.0	16.3	15.9	16.3
Freq. (MHz)	12.0	228.0	200.5	228.0
Limit (dB)	55.3	33.8	34.8	33.8
Worst Pair	45	78	45	78
PS NEXT (dB)	16.6	18.6	16.8	18.6
Freq. (MHz)	19.5	228.0	210.5	228.0
Limit (dB)	49.2	30.9	31.5	30.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	45-36	45-36
ACR-F (dB)	20.8	20.7	20.9	20.8
Freq. (MHz)	113.5	113.5	247.0	247.0
Limit (dB)	22.2	22.2	15.4	15.4
Worst Pair	36	36	36	45
PS ACR-F (dB)	22.4	22.5	23.1	23.3
Freq. (MHz)	60.3	113.5	246.5	246.5
Limit (dB)	24.7	19.2	12.4	12.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	45-78	36-78	45-78	36-78
ACR-N (dB)	20.9	21.0	42.8	45.3
Freq. (MHz)	11.5	3.0	201.0	228.0
Limit (dB)	48.8	61.5	3.1	-0.2
Worst Pair	36	78	45	36
PS ACR-N (dB)	22.6	22.1	44.4	47.6
Freq. (MHz)	7.0	3.3	210.5	228.0
Limit (dB)	51.3	58.4	-1.0	-3.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	36	36	78	12
RL (dB)	3.5	4.4	4.2	7.4
Freq. (MHz)	68.0	68.0	83.3	236.0
Limit (dB)	13.7	13.7	12.8	8.3

Compliant Network Standards:
10BASE-T 100BASE-TX 100BASE-T ATM-25 ATM-155 TR-16 Active
100VG-AnyLan TR-16 Passive



LinkWare™ PC Version 9.5

Project: DEFAULT
Untitled1

Site: Client Name



Figure 7: Fluke Networks LinkWare - Cabling Certification Report

5.8 Invoicing and USAC

- The Service Provider agrees to bill and receive a portion of the payment for the provisions of goods and services described herein directly from USAC via the FCC Form 474 Service Provider Invoice (SPI). The Applicant will only be responsible for paying its non-discounted share of costs and does not intend to use the BEAR process (FCC Form 472). The maximum percentage the Applicant will be liable for is the pre-discount amount minus the funded amount as shown on the FCC Form 471 Funding Request Number ("FRN") and associated FRN Line Items and any identified ineligible costs. Upon the successful receipt or posting of a Funding Commitment Decision Letter from USAC and submission, certification and USAC approval of FCC Form 486, the Applicant shall pay only the discounted amount beginning with the billing cycle immediately following said approval. Alternatively, should the Applicant decide that it is in the best interest of the Applicant to file an FCC Form 472, the Applicant will inform the Service Provider of its intent.
- The Service Provider agrees that it will not invoice USAC for equipment or services that have not been delivered to and accepted by the Applicant and installed. If equipment is being drop-shipped to the Applicant and the Applicant is responsible for installing the equipment, the Service Provider may not invoice USAC until equipment is received and accepted by the Applicant.
- All Service Provider invoicing to USAC must be completed within 120 days from the last day of service. Should the Service Provider fail to invoice USAC in a timely manner, the Applicant will only be responsible for paying its non-discounted share.

6.0 EXPERIENCE

InTCHSolutions was founded to provide corporate and educational clients information technology and engineering consulting services. Our services and capabilities range from and not limited to:

- Network Infrastructure Architecting and Management
 - Firewall
 - Access Points
 - Switches
 - Data Centers
- C-7 Low Volage Cabling and Fiber
- Engineering and Technology Auditing and Assessments
- Software product development
- Database security, management, and migration
- E-Rate – USAC E-RATE Service Provider

all while providing high standard white glove services. Our specialization is finding a solution to any technical related problem and utilizing an engineering and systematic sigma six and agile process to complete our end goals and projects.

Our staff are certified and have a combined total of more than 50 years of industry experience in I.T and Engineering. We are a certified C7 Low Voltage Construction Contractor and have the capabilities to install ethernet, fiber optics, security cameras, low voltage wiring, etc.

Below are a list of additional vendors and distributors that we are partnered with to provide technology solutions.

- Vendors and Distributors
 - CISCO
 - Juniper Networks
 - Palo Alto
 - Solarwind, Quest Software
 - Microsoft, Google, Amazon
 - Schneider Electric Global
 - Ingram Micro
 - TD Synnex
 - GrayBar
 - Ruckus
 - HP Aruba
 - Tripp Lite

6.1 Project Team

The proposed team members that will be supporting the scope of work listed in Bid 1640 are shown below, resumes have been attached to provide more details of our staff's capability.

TABLE III: Project Team Members

Team Member	Title	Responsibility
Brandon Nguyen	Project Manager - Lead	Project Management
Mark Quevedo	Sr. Staff Network Engineer	Basic Maintenance
Nick Mai	Sr. Network Engineer	Basic Maintenance, Cable Installer
Christian Lam	Network Engineer	Basic Maintenance, Cable Installer
Brian Ung	Network Technician	Installation, Cable Management
Andrew Gutierrez	Network Technician	Installation, Cable Management
Justin Nguyen	Network Technician	Installation, Cable Management

Brandon Mai Nguyen

Bnguyen@InTCHSolutions.com (562) 607-8829

RELEVANT SKILLS:

- Quantitative problem solver. Good with math. Quick learner. Systematic thinker.
- Experience working in teams, Agile (Scrum) Software Framework
- Trained in VHDL, C, C++, Python, Matlab, MS Excel VBA and Macros
- Classroom and work experience with Firmware, Software Development, OrCad – Cadence
- Capable with standard business software MS Office (Word, Excel, PowerPoint, Visio), MS Windows, Linux
- CISCO Prime/DNA/Meraki/Catayst Experienced and CCNA trained (Pending Certification)

EDUCATION:

- B.S Electrical Engineering major at University of California, Irvine with Electronic Circuit Design Emphasis — Graduated June 2019.
 - Masters of Science in Electrical Engineering with Communication Emphasis at Cal State University of Long Beach – January 2020 to June 2021
-

EXPERIENCE:

CEO and Lead Consultant, InTCHSolutions Corporation; Irvine, CA

June 2016—Present

- Consulted customer base on I.T Network Server and Security (Physical and Software level)
- Trained employees to be effective for project work scope and statement of work through agile process
- Developed logistic tracking software for Apple, Android, and PC Platform
- Architect Network Infrastructure and Access points for school district and commercial entities
- Familiarity with ARIES student data-base and performed data migration from local server to cloud
- Developed automated Chromebook enrollment software to save time and cost for school districts
- Lead team of 12 to target multiple network infrastructure projects including MDF/IDF installations and upgrades

Communication Network Systems Engineer III, Northrop Grumman; Redondo Beach, CA

June 2019— June 2021

- Performed simulation analysis on wideband downlink following DVB-S2 standards using Matlab
 - Programmed chipset operation using ARM instruction set
 - Supporting single string wideband testing through troubleshooting support and creating Matlab verification scripts
 - Involved in internal research and design to study FEC impacts on satellite communication links
 - Worked with system and design engineers to mature unit requirements following internal H/W and SE development processes
 - Created/Modified/Edited IBM Rational DOORS DXL scripts to increase productivity and minimize processes
 - Use MS Excel, VBA programming, and Matlab to construct and track satellite's orbital path, frequency shift due to doppler effect, and communication link budgets calculations
 - Simulated ADC Dynamic Range and compared to analytical results, as well signal-to-noise jammer analysis
 - Created VBA based macros to study, perform, and complete Cross Polar Discrimination (XPD) analysis
-

SELECTED ACADEMIC/PERSONAL PROJECTS:

M.S. Electrical Engineering Thesis

January 2021—June 2013

Researching to improve MIMO channel capacity using different codebook designs under various channel conditions considering the polarization domain

- Used SVD decomposition as an analysis technique to study the systems SNR and channel capacity

OFDM System Performance Simulation and Analysis

September 2021 — December 2021

Developed OFDM simulation model to analyze system performance through BER

- Model supports cyclic prefix, S/P, P/S, and M-ary PSK modulation schemes under a AWGN channel
-

ACHIEVEMENTS/ACADEMIC HONORS:

- Edison International STEM Scholarship, 2 X Recipient
- Herman Tate Scholarship

Mark E. Quevedo

Consulting Network/Security Architect

MQuevedo@InTCHSolutions.com

QUALIFICATIONS

- Experienced network architect and engineer, consultant, trainer, and mentor. Technical innovator with multiple patents issued and pending.
- Extensive experience in information security and governance in both customer and supplier environments. Standards and protocols guru with deep expertise in L0–L7 networking, TCP/IP, TLS, cryptographic, identity, i18n, PKI, AAA, SSO, operating-system, cloud, and web delivery.

PROFESSIONAL EXPERIENCE

2018—Present **Network Consultant Engineering Fellow** *I.T Solutions, Irvine, CA*

- Designed, configured, and optimized complex network infrastructures using Cisco switches and routers, complemented by advanced software solutions like Cisco Prime Infrastructure (CPI) and Cisco DNA Center, resulting in a 30% improvement in network performance and a 99.99% uptime rate.
- Implemented and fine-tuned solutions for cloud-managed networking (AWS, AZURE, GOOGLE CLOUD), delivering streamlined network management, robust wireless access points, and secure remote access, ensuring efficient remote work capabilities and enabling real-time monitoring and troubleshooting.
- Spearheaded network security initiatives by integrating Cisco Meraki security appliances and leveraging Cisco DNA's software-defined access (SD-Access) to enforce dynamic network policies, ensuring comprehensive threat detection and mitigation.
- Mentoring a team of junior engineers, providing in-depth training and mentoring in Network technologies, resulting in a 20% improvement in team productivity and project delivery timelines, along with enhanced proficiency in utilizing these software solutions
- Provide technical advisement to business team and perform cross knowledge checks for key deliverables

2013—2018 **Senior Principal Engineer** *F5 Networks Inc., Seattle, WA*

- Created new-business incubation proposals with F5 entrepreneur-in-residence, for 5G low-latency IoT edge-computing platform. Performed extensive market and technical analysis.
- Key member of architecture team which brought F5 Cloud Services (F5CS) from concept to public launch in one year. Created F5CS identity and security strategy, architecture, and functional specifications. Product-managed and designed initial F5CS products (DNS, GSLB). Coached developers and new PM's. Technical lead for joint projects with AWS and Azure.
- Architected, designed, and personally coded (initial version, on a very tight schedule) F5's TLS-interception and network-service-chaining product "SSL Orchestrator," inventing multiple patentable features. Architected and built with my team F5's modern declarative configuration API's. Won F5 Five-Star employee award for outstanding performance.
- Created security/cryptographic features for TLS interception, cloud integration, service-chaining, firewall, VPN, IAM, and credential-security products. Technical leader and contributor to design and implementation of multiple F5 products.

- Managed, performed, and procured F5CS internal/external security reviews and penetration-testing of threat models, designs, codebase, and live site. Led legal/regulatory security/CAIQ, GDPR, ITAR, and ISO 27001/2 compliance work with stakeholders and legal counsel.
- Member of F5 “Security Ninjas” team responsible for security design review of all products and CVE’s. Analyzed and drove resolution of security matters and incidents. Author of multiple F5 Deployment Guides including IPv4/6 Datacenter Firewall and NIST-800-53. Wrote extensive security guidance for F5 customers. Spent one year as a quota-carrying sales engineer.

2009—2013 **Identity & Access Management Architect** *Costco Wholesale Corp., Issaquah, WA*

- Architect and engineering leader for Costco’s IAM infrastructure and network services (for then ~100,000 employees, ~70 million members) including mobile-app, corporate, and federated AAA, SSO, and network security systems. Wrote IAM/security/cryptography policies. Created identity schemas and enrollment system. Guided secure payment-processor and supplier integrations. Represented Costco in Microsoft Azure Executive Forum and Identity SIG.

2005—2009 **Research Systems Architect** *City of Hope Medical Center & Beckman Research Institute, Duarte, CA*

- High-performance network, information security, GLP, and HIPAA compliance architect for BRI. Managed laboratory-system projects from soup to nuts.

1999—2004 **Data and Systems Architect** *The Seattle Times, Seattle, WA*

- Co-wrote company IT architecture and data-security plan. Technical lead for new editorial system. Designed and built publishing, intellectual-property, and payment-processing systems.

1995—1998 **Network Architect and Consultant** *Independent, Southern California*

- Assisted clients to design, build, and procure LAN/WAN network systems and services.

1990—1995 **Network Systems Architect** *The Los Angeles Times, Los Angeles, CA*

- Designed and supervised construction from scratch and operation of TCP/IP corporate LAN/WAN network using Cisco and other equipment. Connected the L.A. Times to the Internet (with first corporate 45 Mbit/sec circuit in Los Angeles) and registered first newspaper domain-name in the world (latimes.com). Trained network technicians and IT staff.

1987—1990 **Unix Kernel Developer** *Locus Computing Corp., Los Angeles, CA*

- Wrote kernel, network stack, driver, and application code. Found and fixed security issues—I immunized AIX to the famous 1988 Morris Worm *before* it was launched, making IBM very happy when they found out. Contributed to the first x86 hypervisor (precursor of VMWare).

EDUCATION/CERTIFICATION

University of California, San Diego (1980–1985); Computer Science major.

GIAC Security Leadership Certification (GSLC); currently active. DoDD 8570 IAM-III qualified. Cisco CCNA.

Various professional training, including: Agile and Scrum development methodologies; SANS MGT-512; CoBIT 4.0; ITIL Service Support discipline; Crucial Conversations; F5 LTM/GTM/ ASM/APM; Cisco routing and ASA; VMware Admin; RedHat Linux Admin; Oracle Database Admin; CCI NewsDesk; MS Project Server.

PATENTS

Multi-device authentication; U.S. Patent 11,632,366 B1 (2023-04-18).

Managing network traffic with sensitive data; U.S. Patent 11,625,491 B1 (2023-04-11).

Managing name server data; U.S. Patent 11,444,931 B1 (2022-09-13).

...[M]anaging network connections based on DNS data and network policies...; U.S. Patent 11,122,083 B1 (2021-09-14).

Methods for improved service chain classification and management...; U.S. Patent 11,005,732 B1 (2021-05-11).

Transparent control and transfer of network protocols; U.S. Patent 10,659,368 B2 (2020-05-19).

Additional patents pending.

NICK L. MAI

56 Feather Ridge Terrace Mission Viejo, CA 92692
Phone: 562-377-2947 · Email: nmai@intchsolutions.com

Network Supervisor/Engineer with 17+ years of experience as a Microsoft Certified System Engineer and Microsoft Certified Database Administrator seeking advantage position in a growing company.

EXPERIENCE:

December 2016 – Present

Network ENGINEER STAFF, INTCHSolutions CORP.

- Responsible for overseeing all devices in the Data Centers and multiple networks in multiple location.
- Responsible deploying new servers and configuring them according to the organization's requirements.
- install operating systems, set up user accounts, establish network connectivity, and configure server software.
- perform routine maintenance tasks to ensure the health and stability of server systems.
- proactively identify and resolve server issues, such as high CPU or memory usage, disk space limitations, or network connectivity problems. Troubleshoot server errors, log files, and performance metrics to diagnose and resolve server-related issues.
- Responsible for ensuring the security of server systems. Implement security best practices, configure firewalls, intrusion detection systems, and antivirus software. Enforce access controls, apply security patches, and monitor for security threats or vulnerabilities.
- Develop and implement backup and disaster recovery plans to protect server data and ensure business continuity. Regular server backups, test restore procedures, and maintain documentation for recovery processes.
- Work with virtualization technologies, such as Nutanix AHV or Hyper-V, to deploy and manage virtual servers. They create and manage virtual machines, allocate resources, and ensure optimal performance and availability.
- Maintain accurate documentation of server configurations, procedures, and network topology. They create and update server diagrams, technical specifications, and operational manuals.
- collaborate with other IT teams, such as network administrators, database administrators, and application developers.

May 2005 – January 2016

Network SUPERVISOR, CUSD

- Analyze server usage trends and plan for future capacity needs. Assess server performance, evaluate resource utilization, and recommend hardware or software upgrades to meet growing demands.
- Manage user accounts and access permissions on servers. Create and configure user accounts, assign appropriate access levels, and ensure adherence to security policies and compliance requirements.
- Network Installation and Configuration: Install and configure network equipment such as routers, switches, firewall, and wireless APs. Set up network connections, assign IP addresses, and ensure proper network functionality.
- Network Troubleshooting: Responsible for troubleshooting and resolving network problems and implement solutions.
- User Support: Provide technical support to end-users regarding network connectivity issues, network access.
- Cable Management: Responsible for managing network cabling infrastructure.

CERTIFICATE/EDUCATION

- Microsoft Certified Systems Engineer
- Microsoft Certified Database Administrator
- Network + Certified Professional
- A+ Certified Professional

June 1997 – May 2000 **California State University Dominguez Hills**
• Business Administration emphasis in Computer Information Systems

Dominguez Hills, CA

August 1994 – May 1997 **Long Beach City College**
• A.A., Associate in Arts emphasis in Business Administration

Long Beach, CA

Christian Lam

christian@intchsolutions.com | 214-267-8225 | Long Beach, CA

SKILLS

- Quantitative problem solver. Good with math. Quick learner. Systematic thinker.
- Experience working in teams, Project Management: Agile (Scrum) Methodologies, Jira
- Trained in Java, Python, MS Excel VBA, SAP, MES (Solumina), IBM Maximo, Standard Supply Chain Process and Procedures
- Classroom and work experience with MySQL, STATA, TeamViewer
- Capable with standard business software MS Office (Word, Excel, PowerPoint)
- Currently taking SixSigma certifications involving Voice of Customer(VOC) Campaign, SIPOC/SWOT/Value Chain Analysis
- Certified in C-7 Low Voltage Cabling

EDUCATION – University of California, Santa Cruz

B.A. Business Management Graduate (Emphasis in Business and Information Systems)
2019

June 2014 to June

COMPTIA A+ Certification

Dec 2023

SixSigma Project Management Certification (Yellowbelt – Blackbelt)

Currently in Progress

EXPERIENCE

INTCHSOLUTIONS CORP. – Full Time

June 2022 to Present

Network Engineer

- Plan, design, and implement scalable and secure network architectures to meet the organization's business needs.
- Manage and administer network devices, including routers, switches, and firewalls, ensuring optimal performance and reliability.
- Collaborated with cross-functional teams to implement and support new technologies and initiatives.
- Monitor network traffic, analyze logs, and implement proactive measures to detect and prevent potential security threats.
- Provide technical support to end-users, troubleshoot network issues, and ensure timely resolution of incidents.
- Maintain documentation of network configurations, policies, and procedures.
- Participate in on-call rotation for after-hours support and network emergencies.
- Installed C-7 Low Voltage cables
- Conducted project post-mortems to identify areas for future improvement.
- Trained in information systems and network Infrastructure management and design.
- Ability to perform on-site jobs involving assessment, problem solving, technical troubleshooting and team management

Tesla – Full Time

June 2021 to June 2022

Production Management Associate

- Full-time Production Management Associate for Model 3 in Marriage Department.
- Managed production database and utilized Manufacturing Execution Software (MES) Solumina to ensure development of vehicles are tested and delivered in a timely manner.
- Familiarity with SAP and IBM Maximo software to check quantity of part deliveries and availability daily before production shift.
- Tasked with building and coordinating assembling safety critical portions of the automobile with a team of 16 people.
- Scanned for potential defects prior to beginning tasks in the station, recorded defects, and proceeded with assembly within allotted time.
- Submitted process improvement strategies outside of work hours to reduce waste and prevent future defects.
- Understanding of supply chain to facilitate continuous process improvement.
- Averaged 400 automobiles within a 12-hour shift and maintained a 97% success rate floor.
- Working with a team lead to report delays and supply issues via Excel to supervisors.
- Provide recommendations on potential process changes/supply issues for Product Engineers.
- Create morning meeting presentations via PowerPoint to educate the team on new process changes.
- Strong attention to detail and work ethic in a team environment and enforced safety regulations at all times.

RELEVANT COURSEWORK

Business Information Systems

- Computer hardware and software concepts, system design and implementation, telecommunications, data management, transaction-based systems, and management information systems taught and learned in this course

BRIAN UNG

Long Beach, CA 90807

Bung@InTCHSolutions.com

(562) 388-7513

Skills

- Proficient in Microsoft Office Applications (Word, Excel and Powerpoint)
- Type 80 wpm
- Ability to speak in front of large groups and to individuals
- Lead in meetings and document control trainings
- Able to think critically and diagnose problems based on surroundings and environment
- Team player: delegating work, sharing ideas, working to complete common goals
- Ability to troubleshoot issues related to electronics and mechanics
- CPR & AED certified

Work Experience**InTCHSolutions Corporation – Network Technician**

April 2021 – Present

- Managed employees to insure processes and procedures for documents were followed, managed cloud database for backups
- Trained employees based on industry configuration management standards
- Coordinate Agile meetings with staff and project manager to ensure project went smoothly
- Performed document reviews and deliverables to customer
- Created change of request orders and submittal RFP/RFI packages

Amazon/JLL Reliability & Maintenance Engineering

November 2019 - April 2021

- Perform preventative maintenance on Amazon Robotics equipment, Dematic ARSAW H-Drive chargers, PSC, pick & stow stations involving electrical, mechanical, pneumatic, stored energies
- Troubleshoot electrical, mechanical, & software issues relating to associate stations within the facility
- Ensure safety of all personnel before tending to work orders by performing correct LOTO procedures within Amazon & JLL standards
- Document all work performed on equipment
- Perform repairs & troubleshoot on any damaged or broken equipment, drive motors, MDRs, DMCs, photo eyes, projectors
- Reporting safety concerns pertaining to Amazon Robotics floor and facility
- Address assigned trouble tickets
- Experienced with SEV events i.e. thermal, flood, network & system wide events
- Experience with MHE and assist with MHE responsibilities
- FAST certified
- Qualified Electrical Worker certified
- Maintenance Essential Craft Skills certified

Tutor Perini — Engineer Intern

August 2017 - December 2017

- Go out to the field and examine items to document onto spreadsheets via incomplete and punch lists
- Communicate with and supervise various subcontractors in order to maintain optimal work efficiency
- Organize, retain, and mail RFI packages
- Organize and document history settings
- Address concerns regarding safety control
- Photograph field work and Bluebeam for references
- Participate in subcontractor and engineering meetings to convene over safety protocols, and optimize work flow for the following week
- Kitchen Consultant

Education**Long Beach City College**

June 2022

- Major: Industrial Engineering

Long Beach Polytechnic High School

September 2010- June 2014

- Completed medical courses, which includes learning about terminology and clerical work in the hospital.
- Completed clerical internship at the VA Hospital in Long Beach.
- Completed 2 years of French.
- Completed over 200 Hours of community service.

JUSTIN NGUYEN

(562) 394-6542 | justin@intchsolutions.com

EDUCATION

CSULB - B.S Electrical Engineering

Long Beach, California | August 2022 – June 2026

- Undergraduate - Sophomore Status
- Specializing in Communications, Digital Signal Processing, and Embedded Systems.
- Participated in various clubs such as IEEE and Lunar Robotics.

LBCC – General Education (MATH)

Long Beach, California | September 2021 – Present

- Dual Enrollment – High School and College
- Courses: Math 60 (Calc 1), Math 70 (Calc 2), and Math 80 (Calc 3).

Long Beach Polytechnic High School

Long Beach, California | September 2018 – June 2022

- Student Athlete - Water Polo and Swim.
- High Honor Roll-(3.5 GPA and Above)

WORK EXPERIENCES (ACTIVE CLEARANCE)

InTCHSolutions Corporation - Part Time

Irvine, CA | March 2022 – Present

I.T Technician

- Created RFQ for clientele, RFIs and RFPs for Government and Educational Job bids.
- Installed, troubleshooted, and performed verification on computer, server, network, video, and audio systems.
- Blueprinted and configured an excel tracking system to document quotes, invoices, receipts, and transactions.
- Provided C-7 low voltage network cabling services.
- Configured network devices such as routers and switches for clients.
- Supported end users by servicing their devices both remotely and on site.

Northrup Grumman Internship

Redondo Beach, Ca | May 2023-August 2023

College Intern Engineer

- Deep understanding of System Engineering V and applying it to real life applications.
- Analyze documents and verify requirements according to the stake holder's needs.
- Cross reference with Project Definition, Implementation, to Project Test and integration.

ACADEMIC PROJECTS

Python Script – Government and Educational Job Bid Python Website Scraper

March 2022 – August 2022

- Programmed a python-based website scraper to search and extract information on new and existing government and educational job bids and opportunities.
- Extracted data was formatted, filtered, post processed, and organized for analysis.
- Utilized excel to perform analysis and provide recommendation and rationale to the assignment manager.

Arduino C Autonomous Vehicle

September 2022 – December 2022

- Created an autonomous vehicle using Arduino microcontroller, step motor, i2c ultrasonic distance sensor and various electrical components.
- Vehicles would autonomously drive using ultrasonic distance sensor to navigate around a maze as quickly as possible.
- Learned to code efficiently utilizing embedded C programming language and understand how motors work.

ADDITIONAL INFORMATION

Technical Skills/Experiences

- Experience in: MS Office (Microsoft Excel, Microsoft Doc, Microsoft PowerPoint), Visio, MS Windows, Linux
- Trained in C, Python, MATLAB, Blender (3D Graphics Software)
- Network cabling experience, Technical Troubleshooting Skills, Built personal Gaming PC (24.0GB Ram, i7-6700 CPU, GTX 1050 TI, and MSL Z370 Motherboard).

Personal Skills

- Team Player, Quick-Learner, Organized, Determined

Interests

- Woodshop Working, Fitness, Exploring and Gaming

6.2 Relevant Certifications

Mark Quevedo

Analyst ID: 115644
Certified Since: December 2007

Active Certifications



GIAC Security Leadership (GSLC)

Analyst Number: 1779
Obtained: 2007-12-29
Expires: 2023-12-31



Christian Lam

is hereby recognized as a

RUCKUS Accredited
ICX Implementer

effective date: January 29, 2024
expires on: January 28, 2027



93436318

Anika Trahan, Program Manager, Certification



BELDEN

Diploma

This document certifies that

Brandon Nguyen

has successfully passed the

Hirschmann Industrial Network Professional

Melissa Knapp
Melissa Knapp
Training Manager



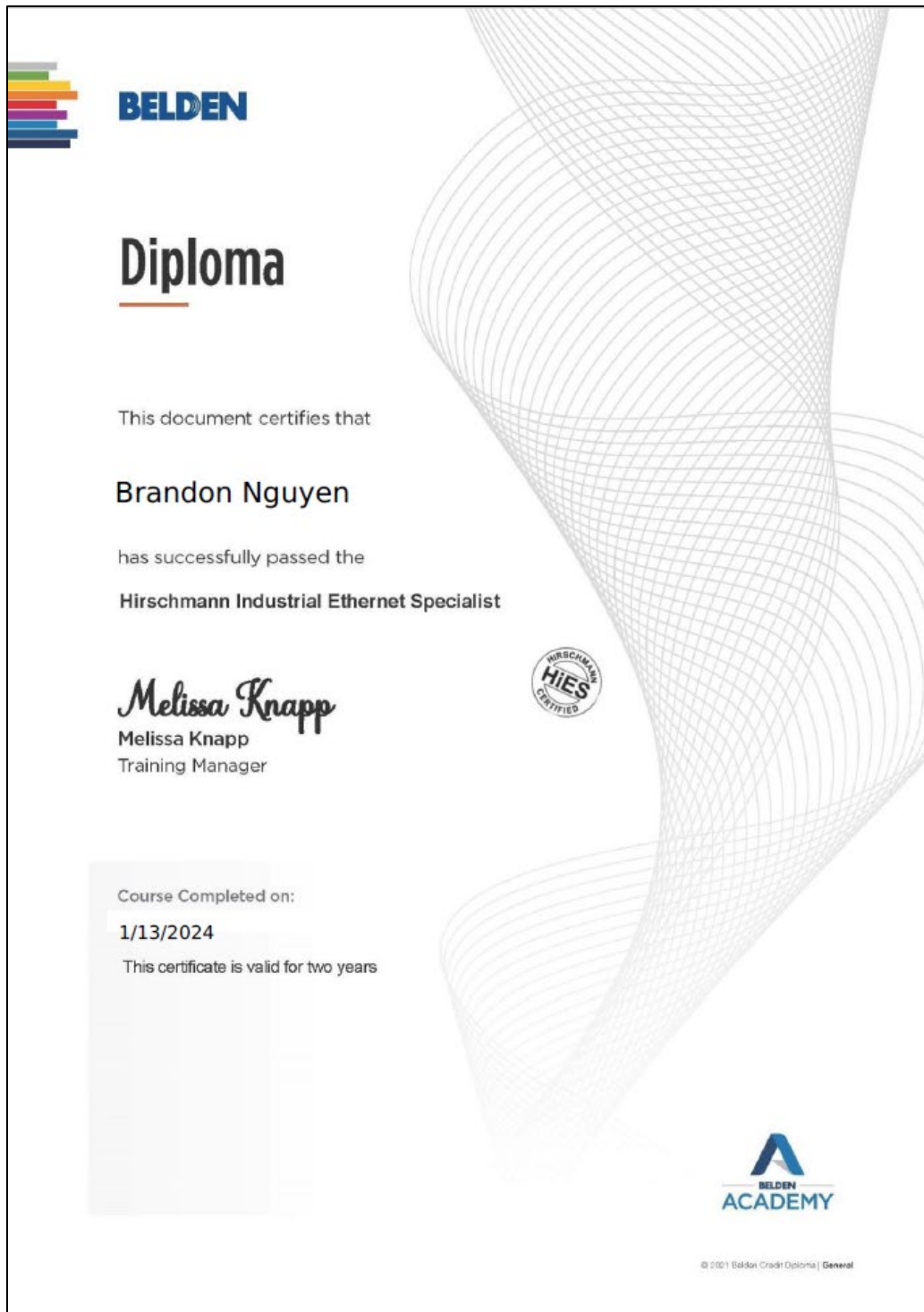
Course Completed on:

2/5/2024

This certificate is valid for two years



© 2021 Belden Credit Diploma | General



6.2 Use of Subcontractors

InTCHSolutions does not leverage or use any other contractors to perform work.

6.3 Our Firm Commitment

As of February 2024, I.T Solutions are not currently under contract or involved in any long-term projects. We consistently provide month-to-month services to all our customer basis. All past projects have been completed and demonstrate our commitment to our customer and clientele.

Under the project scope described in the RFP, all staff will be available to support this proposal and project. The anticipated RFP project schedule and planning is understood.

6.4 Project Experience References

TABLE IV: Past Projects, Key Experience, and References

Project	Customer	Description	Contact
MDF/IDF E-Rate Refresh Project Design Consulting	Long Beach Unified School District	Provide design consulting services to LBUSD in preparation for implementation phase of MDF/IDF E-Rate project. Performed design services, auditing, and bill of materials for implementation phase	Shawn Organ - Network Manager SOrgan@lbschools.net 562-997-8232
MDF/IDF E-Rate Refresh Project Design Consulting	Long Beach Unified School District	Provide design consulting services to LBUSD in preparation for implementation phase of MDF/IDF E-Rate project. Performed design services, auditing, and bill of materials for implementation phase	Robert Megowan - Project Manager RMegowan@lbschools.net 562-997-8000 x1320
Assests Management and I.T. system refresh	Compton Unified School District	Provided I.T. system refresh withing the Early Childhood Education department	Telma Bayona - Director of Early Childhood Education tbayona@compton.k12.ca.us 562-367-2230
Compton Unified School District Computer Refresh for Roosevelt Elementary School Parent Center and Staff Offices	Compton Unified School District 700 N Bradfield Ave, Compton, CA 90221	Performed system refresh at Roosevelt Elementary School, Lockdown and provided I.T services	Rayjanette Condley - Principal 310-898-6350
Compton Unified School District Computer Refresh for Roosevelt Elementary School Parent Center and Staff Offices	Compton Unified School District 700 N Bradfield Ave, Compton, CA 90221	Performed system refresh at Roosevelt Elementary School, Lockdown and provided I.T services	Lue Haynes LHaynes@compton.ca.k12.us 562-381-3815
UPS factory building - MDF, IDF installation and network architecture design	LA Department of Transportation	MDF/IDF design and installation of network switches and access points	Rafa Tejeda rtejeda@ups.com 909-204-0657

Project	Customer	Description	Contact
Computer Refreshes and Network Audit	Loyola Marymount University 1 LMU Dr. ITS Daum Hall Los Angeles, CA 90045	Assist IT team in computer refreshes and performed network auditing services	Walter San Wathana.san@lmu.edu 562-331-4657
E-rate - Network Access Points Refresh	Compton Unified School District	E-rate - Network Access Points Refresh	Kevin Evans - Director of IT (Retired) Kevin@convenientcomputing.com 310-989-3600

6.5 Reference Letters

I am writing to provide a letter of reference for Brandon and the team at InTCHSolutions. They have been engaged in delivering design consulting services for the Long Beach Unified School District's (LBUSD) network infrastructure. InTCHSolutions has been a key partner in the ongoing efforts to enhance and optimize the network infrastructure across multiple schools within the district for the upcoming E-Rate switch refreshment project.

Brandon and the team have demonstrated a high level of professionalism, technical expertise, and dedication throughout the entire process. Their work involves serving in an architect's role to design the details of the next implementation phase. Their scope includes surveying over fifty schools to assess the Main Distribution Frame (MDF) and Intermediate Distribution Frame (IDF), writing a scope of work document for bid, developing comprehensive design checklists, updating site maps, and creating detailed Layer 3 and Layer 2 network topology maps and device counts.

One of the notable strengths of InTCHSolutions is their meticulous approach to every aspect of the project. The design checklists they have developed are thorough and tailored to the specific needs of LBUSD, ensuring that all critical elements are taken into consideration. The updated site maps and network topology maps provide a clear and detailed overview of the existing infrastructure, facilitating effective decision-making and future planning.

In addition to their technical proficiency, Brandon and the team have been proactive in collaborating with our staff, ensuring that the design solutions align seamlessly with the unique requirements of LBUSD. Their commitment to communication and responsiveness has been commendable, fostering a collaborative and productive working relationship.

Should you have any further questions or require additional information, please feel free to contact me.



Robert Megowan

Technology Project Manager

Long Beach USD – Facilities Development & Planning

Email: RMegowan@lbschools.net

Phone: 562-997-8000 x1320

**Robert
Megowan**

Digitally signed by
Robert Megowan
Date: 2024.01.17
09:14:54 -08'00'

To whom it may concern,

I am writing to provide a letter of reference for InTCHSolutions, a company that has consistently demonstrated a high level of expertise in C-7 Cabling, Network Switch, Access Point, and Network Design Infrastructure.

InTCHSolutions has been a valued E-Rate service provider. Their proficiency in C-7 Cabling is commendable, and they have successfully executed projects that required intricate cabling solutions. Their attention to detail and commitment to quality have resulted in robust and reliable cabling systems meeting industry standards.

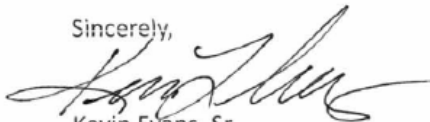
Furthermore, InTCHSolutions' expertise extends to Network Switch and Access Point configurations. They have demonstrated a deep understanding of the latest technologies and industry best practices in setting up and optimizing network switches and access points. Their ability to design and implement scalable and efficient solutions has significantly contributed to the seamless functioning of the network.

In the realm of Network Design infrastructure, InTCHSolutions has showcased exceptional skills. Their team possesses a thorough understanding of network architecture, security considerations, and the integration of various components to create a comprehensive and resilient network design. Their innovative approach to problem-solving and their ability to tailor solutions to our specific needs have been key factors in network projects.

I have consistently found InTCHSolutions to be reliable, professional, and dedicated to delivering high-quality results. Their team is responsive to challenges, proactive in communication, and adept at collaborating with other stakeholders to ensure project success. I confidently recommend InTCHSolutions for any information technology related projects.

If you have any further questions or require additional information, please do not hesitate to contact me at 310 537 1000 / Kevin@convenientcomputing.com. This letter is provided without hesitation or reservation. Thank you for considering InTCHSolutions for your network infrastructure needs.

Sincerely,



Kevin Evans, Sr
Information Technology Director
(Retired, Compton Unified School District)

CTO, Convenient Computing, Inc



Compton Unified School District
Early Childhood Education

411 N. Tajauta Avenue, Compton, CA 90221
Phone: (310) 639-4321, Ext. 46796

January 18, 2024

Denzell Perry
President

To Whom It May Concern:

Ayanna E. Davis, Ed.D.
Vice President

I am writing to highlight the exceptional contributions of InTCHSolutions to the Early Childhood Education Department at Compton Unified School District. InTCHSolutions has played a pivotal role in successfully upgrading our computer systems, providing invaluable external information technology consulting, and delivering solutions that have significantly enhanced our technological infrastructure.

Micah Ali
Clerk

Alma Taylor Pleasant
Legislative Representative

One of the standout qualities of InTCHSolutions is their commitment to ensuring timely and effective solutions. They have consistently demonstrated a proactive approach to identifying and addressing the specific needs of our Early Childhood Education department. Their ability to deliver results within established timelines has been crucial in smoothly executing the computer system upgrade.

Satra Zurita
Member

Sandra Moss
Member

In addressing technical issues, InTCHSolutions has proven to be a reliable partner. Their team's expertise has been instrumental in troubleshooting and resolving various technical challenges, contributing to our computer systems' overall stability and functionality. Their prompt response to technical issues has minimized downtime, allowing our staff to focus on providing quality education and support to our students.

Charles Davis
Member

Darin Brawley, Ed.D.
Superintendent

In recent efforts, InTCHSolutions is in the process of developing customized inventory and assets management software. This software will be key in efficiently tracking government-funded assets, ensuring accurate record-keeping and compliance with regulatory requirements. The software's user-friendly interface and robust features will streamline our asset management processes, improving efficiency and accountability.

In conclusion, I highly recommend InTCHSolutions for their outstanding contributions to enhancing our computer systems and technology infrastructure. Their commitment to delivering timely solutions, addressing technical issues, and providing innovative software solutions has significantly benefited the Early Childhood Education department at Compton Unified School District.

Please feel free to contact me if you have any further questions or require additional information.

Respectfully,

A handwritten signature in blue ink, appearing to read "Telma Bayona".

Telma Bayona,
Director, Early Childhood Education



Compton Unified School District
Roosevelt Elementary School
700 North Bradfield Avenue, Compton, CA 90221
Phone (310) 898-6350 Fax (310) 632-0338



Rayjanette Condley, Principal

Sherry Osborne-Scott, Assistant Principal

January 18, 2024

To Whom It May Concern

I am writing this letter of reference to highly recommend Brandon Nguyen, a dedicated tech representative, for Intech Solutions who has played a crucial role in enhancing the technological infrastructure at Roosevelt Elementary School. Brandon has been instrumental in providing essential electronic equipment, including monitors, lockdown systems, iPad covers, and Chromebook chargers, thereby significantly contributing to the school's educational environment.

Since Brandon began collaborating with Roosevelt Elementary School, the impact has been palpable. Their commitment to understanding the unique needs of our educational institution and their expertise in sourcing and delivering high-quality electronic devices have greatly benefited both teachers and students.

Among the notable contributions are the provision of state-of-the-art monitors that have improved the visual experience in our front office. The implementation of lockdown systems has added an extra layer of security, ensuring a safe and secure environment for all. Additionally, the durable iPad covers and reliable Chromebook chargers have proven essential in facilitating remote learning initiatives and enhancing the overall accessibility of technology for students.

What sets Brandon apart is not only their proficiency in technology but also their exceptional customer service. He has consistently demonstrated a willingness to go above and beyond to meet our specific requirements, providing timely and tailored solutions to any challenges that arose.

I have received positive feedback from both staff and students regarding the quality of the electronic equipment supplied by Brandon. Their contributions have significantly improved the educational experience at Roosevelt Elementary School, and I have no hesitation in recommending Brandon for any future endeavors.

If you require any further information or details regarding Brandon Nguyen contributions, please feel free to contact me at (310-898-6350).

Sincerely,


Ms. Lue Haynes
School Secretary

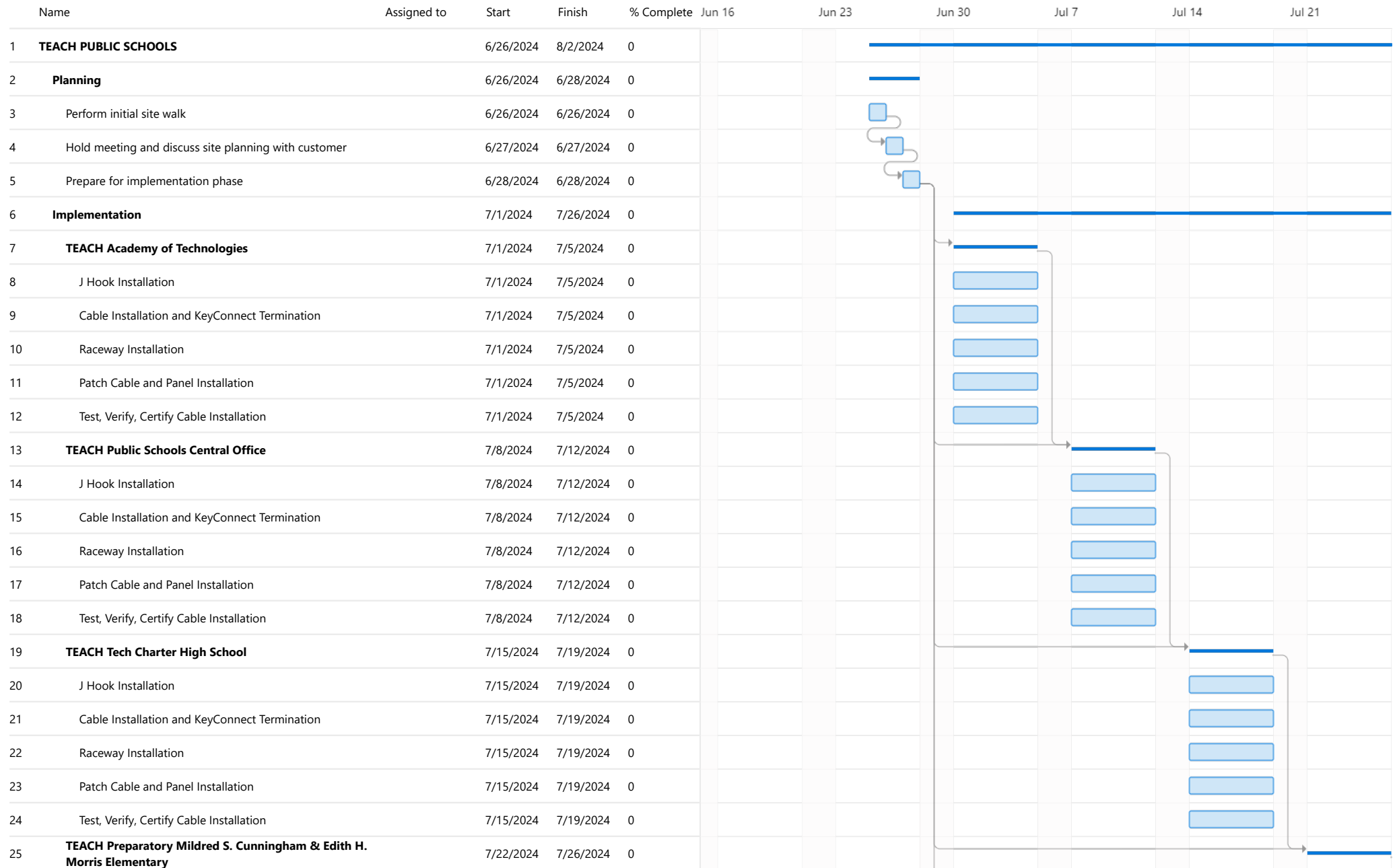
7.0 Conclusion

Thank You TEACH public schools for reading InTCHSolutions Corporation proposal for the E-rate – Cabling and Basic Internal Maintenance. At InTCHSolutions, we take pride in providing upmost high quality customer service to the District if given the opportunity. Again, Thank You for your time and consideration.

For additional information, please contact Brandon Nguyen | 562.607.8829 | bnguyen@InTCHSolutions.com or visit www.InTCHSolutions.com

Appendix A. Project Schedule

TEACH PUBLIC SCHOOLS



TEACH PUBLIC SCHOOLS

Name		Jul 28	Aug 4	Aug 11	Aug 18	Aug 25	Sep 1	Sep 8						
1	TEACH PUBLIC SCHOOLS													
2	Planning													
3	Perform initial site walk													
4	Hold meeting and discuss site planning with customer													
5	Prepare for implementation phase													
6	Implementation													
7	TEACH Academy of Technologies													
8	J Hook Installation													
9	Cable Installation and KeyConnect Termination													
10	Raceway Installation													
11	Patch Cable and Panel Installation													
12	Test, Verify, Certify Cable Installation													
13	TEACH Public Schools Central Office													
14	J Hook Installation													
15	Cable Installation and KeyConnect Termination													
16	Raceway Installation													
17	Patch Cable and Panel Installation													
18	Test, Verify, Certify Cable Installation													
19	TEACH Tech Charter High School													
20	J Hook Installation													
21	Cable Installation and KeyConnect Termination													
22	Raceway Installation													
23	Patch Cable and Panel Installation													
24	Test, Verify, Certify Cable Installation													
25	TEACH Preparatory Mildred S. Cunningham & Edith H. Morris Elementary													

TEACH PUBLIC SCHOOLS

	Name	Assigned to	Start	Finish	% Complete	Jun 16	Jun 23	Jun 30	Jul 7	Jul 14	Jul 21
26	J Hook Installation		7/22/2024	7/26/2024	0						
27	Cable Installation and KeyConnect Termination		7/22/2024	7/26/2024	0						
28	Raceway Installation		7/22/2024	7/26/2024	0						
29	Patch Cable and Panel Installation		7/22/2024	7/26/2024	0						
30	Test, Verify, Certify Cable Installation		7/22/2024	7/26/2024	0						
31	Closure		7/29/2024	8/2/2024	0						
32	Perform documentation at each of the Sites		7/29/2024	8/2/2024	0						
33	Create final close documentation of site cable installation		7/29/2024	8/2/2024	0						
34	Hold closeout meeting with TEACH PUBLIC SCHOOL		7/29/2024	8/2/2024	0						

TEACH PUBLIC SCHOOLS

Name		Jul 28	Aug 4	Aug 11	Aug 18	Aug 25	Sep 1	Sep 8						
26	J Hook Installation													
27	Cable Installation and KeyConnect Termination													
28	Raceway Installation													
29	Patch Cable and Panel Installation													
30	Test, Verify, Certify Cable Installation													
31	Closure													
32	Perform documentation at each of the Sites													
33	Create final close documentation of site cable installation													
34	Hold closeout meeting with TEACH PUBLIC SCHOOL													