

SAJAD ALEMARA

Sajad422@hotmail.com • (313) 408-6847

KEY SKILLS AND KNOWLEDGE

Troubleshooting and Issue Resolutions	Program Planning and Strategizing	Electrical Design and Modeling
LabVIEW, MATLAB/Simulink, C++	Arduino, Multisim, Minitab	MS Office Suite and Presentations
Cloud Infrastructure, Ethernet	TCP/IP, LAN/WAN, BGP/OSPF	Wireline, OSI Network Model

EDUCATION

WAYNE STATE UNIVERSITY, DETROIT, MI

GRADUATION: MAY 2019

BACHELOR OF SCIENCE – ELECTRICAL ENGINEERING – GPA: 3.1

Professional Experience

T-MOBILE, LIVONIA, MI

DECEMBER 2019 – PRESENT

IMPLEMENTATION ENGINEER

- Worked closely with marketing to support network development efforts and new product rollouts.
- Designed and implemented infrastructure that powers telecommunication services for customers using concepts such as IP packet classification, routing, forwarding, IP addressing and assignment, and IP tunneling.
- Monitored network capacity and performance, as well as diagnosed and resolved complex network problems.

UNDERWRITERS LABORATORIES, NOVI, MI

AUGUST 2019 – DECEMBER 2019

PROJECT ENGINEER

- Electromagnetic Compatibility (EMC) testing was performed on automotive components for global customers.
- Lead design, development, implement and verification of EMC test methods such as BCI (Bulk Current Injection), Conducted Emissions (CE), Radiated Emissions (RE), Electrostatic Discharge (ESD), and Vehicular Transient Tests.
- Coordinated laboratory activities by preparing data sheets and instructions to technicians, scheduling and reviewing work of laboratory technicians and engineering assistants, and establishing completion dates.

SPRINT, LIVONIA, MI

JUNE 2017 – OCTOBER 2018

WIRELINE ENGINEER

- Effectively managed the design and installation of local and wide area network systems for global customers.
- Upgraded network infrastructures from TDM to Ethernet, along with engineering the class of service, quality of service, and queuing profiles responsible for the hierarchy of data being transmitted.
- Assembled Cisco router components and switches to meet the needs of customers.
- Participated in researching and evaluation of new products and services such as SD-WAN, MPLS, and DIA.
- Monitored and supported all installations in progress to ensure that engineering quality standards are met.

BEST BUY, TROY, MI

SEPTEMBER 2014 – MARCH 2018

LEAD SALES CONSULTANT

- Integrated solutions and services were presented for different operating systems such as iOS and Android OS.
- Provided assistance in sales presentations and product demonstrations to valued customers.
- Supervised and trained a diverse team to demonstrate, promote, and sell the best solutions to customers.

PROJECTS

WAYNE STATE UNIVERSITY, DETROIT, MI

ELECTRIFICATION OF VEHICLES (CAPSTONE)

- Developed a state of charge estimator used to measure an electric vehicle's remaining battery capacity / BMS.
- Documented a lithium-ion battery cells internal resistances to obtain the batteries full charge-discharge cycles.

MICROPROCESSOR VOLTAGE ALARM

- Programmed Motorola 68HC11 microprocessor on the EVBPlus2 board to receive an analog input through a potentiometer and activate an onboard speaker when the voltage exceeded a threshold of 2.5 Volts.
- Coded the program on the THRSim11, then synced to the Motorola 68HC11 microprocessor for testing.

C++ PROGRAMMING SCHEDULE MAKER

- Designed a program that served as a schedule maker using different design methodologies such as arrays, pointers, while-loops and nested-loops.