Tanjil Muzahid

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Electrical Engineer, BASc
University of Waterloo, 2016

Current Address:
151 Beecroft Road, Unit PH10
North York, Ontario, M2N7C4

Skills and Knowledge:

- Familiar with Python, C, C++ and C# and skilled with VBA, MySQL and Visual Studio Basics
- Wide experience in Microsoft Office (Word, Excel and Access), LabView, AutoCAD, Microstation, PSSC, Music Recording Software (multiple), Photoshop and other software
- Capable of managing team, multiple priorities and perform under pressure in all environment
- Excellent analytical, problem solving skills and customer care skills and powerful negotiator
- Excellent verbal and written communication and extremely organised
- Proficient in Electrical Equipment, Control Systems, Accounting, Economic Concepts and Business Management Fundamentals

Work Experience:

Canadian Automotive Association (CAA)   June 2016 – present
Thornhill, Ontario
CAA Loyalty Team Lead and TMI Support Analyst
I provide level two application and system support and contribute to establishing and creation of system support documents, deployment plan, system workflow, logical processes and any ongoing integration. I maintain priority of technical issues, product enhancement and infrastructure projects by consulting with Business and DEV team. I have increased efficiency at work by automating and improve system tasks, jobs, reports, test cases and business tasks using Jenkins, MS-DOS, SQL, iMacro and VBA scripts. I have also created monitors to review system capabilities, workflow and limitations and alert Application Support Team for any failures. I constantly partake on code releases, creating tools, rolling out of new functionality to production, DR and lower environments. I have been leading CAA Loyalty Team and working as a senior system analyst for TMI team. I have executed major infrastructure projects, trained new onboard hires and am currently reporting and accountable to four company directors. I am using DynaTrace, F5, SCOM and ZenEdge for application security and incident investigation. I also maintain business relations with CAA National Partners and provide customer care for CAA National and ORION.

Independent Electricity System Operator (IESO)   September – December 2015
Mississauga, Ontario
Reliability Assessment Analyst
Our team ensures that we meet the province's energy needs and plan and we secure reliable energy for future. We assess reliability of Ontario electricity system over the next 18 months and beyond. I used Python to generate plots, tables and other data analysis about reliability. We also assess the ability of generation and transmission resources to be utilized to maintain reliability. I managed databases and developed analytical tools that I documented and presented to the team which are in use.

Canadian Solar   September – December 2014
Guelph, Ontario
Research and Development Engineering Co-op (Micro-grid Department)
My main focus was to research, compare, recommend and report various renewable micro-grid components. I also assisted in the design, layout and implementation of micro-grid test facility using AutoCAD. I also drew all the single line diagrams for the smart micro-grid test facility connecting to the grid. I also initiated, generated and maintained technical documents related to energy project proposals. I arranged meetings with sponsors, university professors and our team to discuss future steps and to maintain business relations.

Independent Electricity System Operator (IESO)   January – April 2014
Mississauga, Ontario
Operation Change Initiative - Developmental Student
I reviewed and tested single line transformer, generator station and other operator displays in the SCADA training environment. I created tools for control room operators (Alarming), control room training (Load Curve), project management (OPET) and document these and other procedures. Our team developed and tracked test cases for on boarding software (SCADA) with timelines. We documented the boarding software (SCADA) and I wrote instruction manual for trainers and trainees. I assisted IOMS team with new Outage software selection process by doing cost benefit analysis. I also learned and utilised IESO's in house BITs query database.

Toronto Hydro   May – August 2013
Toronto, Ontario
Distribution Services
I ensured civil and electrical drawings are correct with take-offs and follow city standards. I did quality control for documents that are going into the field. I confirmed proper material and correct quantities were sent out and I maintained BOM. I overlooked multiple projects while working with SNC Lavalin and AECON. I created and edited maps for the contractors. I compared cost estimates and ensure that the differences to actual costs incurred are justified. I also create performance reports and send out Non-Compliance tickets to contractors when needed.

PriceWaterHouseCoopers   August – December 2012
Toronto, Ontario
Application Support Analyst
I worked in both first and second level application support. I developed new application support procedure with focus on automation and self service. I documented major applications like iPower and Payroll. I participated in application testing and finding optimum solutions for current processes. I also provided customer care service.

Deshmati IT Enable Service Limited (DITES)   February – April 2012
Uttara, Bangladesh
Company Associates
I prepared user interface for DITES and implemented data validation for new account entries. Other than the interface I was also responsible for data manipulation and reports.

S & M Enterprises   January – February 2012
Mississauga, Ontario
Production Associate.
I supervised the line workers and allocated jobs amongst them. I managed existing machineries and repaired damaged inventory by following precise steps. I introduced and trained new workers with the company working procedure.

Projects:
Omni Directional Antenna Array System (Fourth Year Design Project)
The array system reduce transmission power requirements, increase connectivity and reduce signal noise. Our team designed and printed antenna array and phase delay network. We designed and printed RF Receiver and Signal Strength Detector. We implemented control phase delays through Arduino micro-controller by detecting optimum signal strength

Autonomous Driving Mini Car (Undergrad Research Assistant)
I researched components for the car that best fit with the requirements (eg. Battery life, sensors). I assisted with the backend coding for Arduino controller for object detection, lane departure detection, reading road signs, etc.

Other smaller projects

- Designing and building multiple guitar pedals
- Design and develop C# code to control a robot in four practical laboratories
- Implemented interrupt driven timer and clock functionality for traffic light on Altera DE2 board
- Design a multistage amplifier
- Controlling the position of a ball on a beam using LabView
- Set up the processor to respond to hardware interrupt requests for a music player with various playback modes (normal speed, half speed, double speed, channel delay, and reverse) using C language in Nios II IDE, Quartus II, Nios II embedded processor loaded onto the Altera boards
- Currently working on a smart mirror using Rasberry Pi, p with Arduino micro-controller and doing music projects