Intesarul Qayyum Khan

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Coder | Gamer | Photographer

EDUCATION

BACHELOR OF ENGINEERING – MAJOR ELECTRICAL
McGill University   June 2019
Montreal, QC

CERTIFICATIONS:
Lean Green Belt Six Sigma   October 2017

SKILLS

PROGRAMMING: • Python • JAVA • C • HTML • CSS • VHDL• Visual Basic • SQL • Lua

SOFTWARE PACKAGES • Eclipse • Visual Studio Code • Office 365 • Jupyter • OrCAD • MATLAB • Android Studio • Git • Google Firebase

COURSES: • Antennas • Controls and Robotics • Machine Learning • Digital Signal Processing • Design Principles and Methods • CourseEra Python Specialization

WORK EXPERIENCE

QNSGLOBAL LOGISTICS GROUP | Project Coordinator   2019
Dhaka, Bangladesh
- Represented the board of directors in overseeing an investigative audit and process improvement carried out by KPMG Bangladesh.
- Supported in business planning and improved functions of multiple departments, by simplified documentations and reporting ensuring accountability via role specification and segregation via process charts.
- Improved operational efficiency by over 30% and accountability via implementing a system of fact-based solution to establish and optimise accurate time cost benchmarks.

MICROSOFT | Intern Product support   2016
Dhaka, Bangladesh
- Maintained client records and proposed guidelines for transition to Microsoft Azure to Clients.
- Worked with the sales team on negotiating contracts with prospective clients.

ACADEMIC & PERSONAL PROJECTS

MUSICAL SYNTHESIZER | McGill University   2019
Hardware Developer
- Programmed in **C** to generate, control and display the signal of a given musical input on screen (VGA output).
- Used ARM instructions to specify the timers, memory location and I/O devices of the altera Quartus board (DE1-SoC computer).

INVERTED PENDULUM | McGill University   2018
Hardware Developer
- Designed a Full State Feedback and LQR controller to control an inverted pendulum using an IP02 servo, Data acquisition board, Power Amplifier using **MATLAB/SIMULINK**.
- Was able to achieve stability for specified parameters even with external factors affecting the system.

CLASSMATE | McHacks   2018
Android Developer
- Developed an tinder like android app student that matches classmates in the same course when the both swipe each other.
- Used **GoogleFirebase** to store user/chat/match data.

WASTE MANAGEMENT SOLUTION | McGill Sustainbility Office   2017 - 2018
Hardware & Software Developer
- Built a real time Real-time Wireless Waste Monitoring system web application.

- Developed an API for the sensors and synchronized data collection with the MYKO app.

MIND-CONTROLLED LINE FOLLOWING ROBOT |RoboHacks   2016
Software Engineer
- Built a line following robot that activates(start/stop) depending on the frequency of the user's brainwaves/jaw clenches.
- Collected EEG (electroencephalogram) data using a MuseTM headband.
- Simultaneously helped my teammates assemble and calibrate the robot which reduced the project time by 25 % helping us finish in less than 24 hours.

DESIGN PRINCIPLES AND METHODS | McGill Robotics Competition   2016
Software Engineer

- Place **2nd** out of 16 teams: Worked on the localization/obstacle avoidance correction code with the software lead which allowed to robot to successfully navigate to lift the ball placed on a 15x8 grid.

- Created testing scenarios for the robot & documented hardware/testing procedures.

EXTRA-CURRICULAR

MCGILL ROBOTICS | Communication and Perception Sub team (MARS Rover)
Montreal, QC
- Researched and proposed solution for the architecture of the Rover.
- Worked with the software team to develop an API for the sensors and cameras.

BSA MCGILL | VP Finance
Montreal, QC
- Managed the budget of the student association which is catered to McGill Bengali Community.
- Organized cultural events & used effective promotion strategies to raise popularity.

JAGOO FOUNDATION | Teachers Assistant
Dhaka, Bangladesh
- Was given responsibility of a class of 20 children in the NGO and taught Basic Calculus & English.