Joey Ah-kiow

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Education

BSc in Electrical Engineering Sep 2018 – Present
University of Calgary Calgary, Canada
- Minor in Computer Engineering
- CGPA: 3.74/4.0
- Expected graduation: May 2023

Skills

Hardware
FPGA (VHDL, Verilog), PIC microcontroller, Arduino, oscilloscope, MIPS

Software
Quartus, ModelSim, SolidWorks, NI Multisim, LTSpice, GitHub, Power BI

Programming
C, C++, Java, C#, SQL, MATLAB, Python

Communication
Design proposals, technical reports, instruction manuals, presentations, engineering specifications and procedures

Professional Experience

Field Data Program Management Intern May 2021 – Present
TC Energy Calgary, Canada
- Managed the Field Data program by revising official specifications and procedures documents, supporting internal and external stakeholders, maintaining and ensuring data quality, and completing various improvement initiatives
- Developed a new reporting tool adopted by the Pipe Integrity department (~200 employees) to automate the escalation of reporting through the chain of management, resulting in 60-70% time-saving for management
- Created and managed various Power BI reports that leveraged the field data program to enable data-driven decision making and improve workflow processes
- Implemented process automations for the Valve Integrity team, leading to improved data quality and efficiency for regulatory reporting

I.S. Data Provisioning Intern May 2020 – Aug 2020
Canadian Natural Resources Limited (CNRL) Calgary, Canada
- Developed and implemented SQL scripts to load, transform and correct data
- Developed two applications using C# and .NET 4.8 to automate (1) the deployment of SSRS reports, and (2) the management of our Tableau server groups and users

Undergraduate Research Assistant May 2019 – Aug 2019
University of Calgary Calgary, Canada
- Researched the set of parameters that would yield the most accurate output when completing least-squares adjustments for stereo-photogrammetry purposes

Projects

REJOY Fitness Tracker Jan 2021 – May 2021
Arduino-based system that measures and stores data such as blood oxygen level, heart rate, and steps taken
- Developed a fully integrated device that utilized an SD card module, a heart rate and blood oximetry sensor, a rotary encoder, an accelerometer, an RTC, a LiPo battery, an OLED display and a BLE module
- Utilized standard protocols such as SPI and I2C to communicate between the Arduino and the peripherals