

Talha Khalil

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EDUCATION

University of Calgary

Bachelor of Science in Electrical Engineering
Minor in Computer Engineering
GPA: 3.81/4.0
2017-22 (with Internship)

SKILLS

Programming Languages

C++, C, Python, MATLAB, Java, SQL, MIPS and Blackfin Assembly

Certifications

Machine Learning

Other

3D Printing, Git, Agile Development, SCRUM, Linux, Mac, and Windows

LEADERSHIP EXPERIENCE

Digitronics | University Club

Sept. 2019 - Apr. 2020

- Mentored members and taught them how to work with hardware (Arduino) and code in C
- Executive in charge of communication, organizing club events and debugging and developing projects

Project 90 | University Club

Sept. 2017 - Sept. 2019

- Team lead in charge of 15 other students, building plastic recycling machines
- Designed and built a plastic compressor machine and did the electrical wiring for 3 other machines

AWARDS

Biomedical Engineering Research Grant

Dean's List 2017-20

Jason Lang 2017-20

Alexander Rutherford Scholarship

First Year Scholar

EXPERIENCE

Learning Assistant | University of Calgary

Jan. 2020 - Aug. 2020 | Calgary

- Tutored first year and second year engineering students with course work

Undergraduate Researcher | Hotchkiss Brain Institute

May 2020 - Aug. 2020 | Calgary

- Developed a tool in Python and MATLAB that reduced data extraction from taking 2 weeks to 2 hours
- Developed a program in Python which significantly increased the efficiency of paper use (37 to 2 pages)
- Pending paper on Parkinson's disease deep brain stimulation targeting

PROJECTS

Course Registration System | Java and SQL

Software

- Developed a server-client application, with a login and registration system
- Designed and created an application which was used to register students into classes

Arduino - Android Mesh Network | C++

Embedded Systems Project

- Designed and created a device which used LoRa, Arduino and Bluetooth to send messages
- Aided in the design of an accompanying android application

Audio Clock | C

Embedded Systems Project

- Designed and created an audible clock for visually impaired individuals
- Programmed the clock software in C for PIC microcontroller
- Designed the speaker and analog filter for the clock and 3D printed the casing

Remote Controlled Car | C

Embedded Systems Project

- Created a remote-controlled car for the Arduino microcontroller in C

MATLAB Data Select | Python and MATLAB

Software

- Developed a tool which selects through MATLAB data figures quickly through a GUI interface using Pythons