

# Abdulmajeed Amran Computer Engineering Student

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## TECHNICAL SKILLS

### Software

- Python
- C/C++
- Java
- Assembly
- HTML/CSS

### Hardware

- FPGA
- Arduino/Itsy-bitsy
- Electronics Lab Equipment
- Soldering

### Programs

- Quartus / Modelsim
- Fritzing
- Onshape / Solidworks
- MATLAB

## EDUCATION

### University of British Columbia

Bachelor of Applied Science - Computer Engineering

July 2025

## TECHNICAL WORK EXPERIENCE

### Long View Systems, Vancouver, BC

#### Junior IT Technician

August 2022

- Led the effort to configure and connect 30 computers into a network, which resulted in increased efficiency and productivity for the Long-Term Center.
- Assisted senior technicians with various tasks, such as diagnosing technical issues and providing customer support.
- Used Windows CMD and iTunes to successfully manage and update software across all devices, ensuring that they were remotely managed and compliant with industry standards.

## TECHNICAL PROJECTS

### 16-bit simple RISC machine, Verilog

November 2021

- Design and implementation of a 16-bit RISC processor in Verilog HDL, targeted for use on a Cyclone 5 FPGA.
- Successfully demonstrated machine functioning on a Cyclone 5 FPGA to achieve 100% project completion.
- Adapted ARM assembly language for machine code to allow for more efficient instruction processing and compatibility with industry standards.

### Dancing Robot (Itsy-bitsy), Python

March 2022

- Designed and developed an electrical system for a robot that utilized various sensors and input devices
- Successfully created a fritzing diagram with all the components and wiring
- Refined code to ensure its efficiency and compatibility with various input devices and sensors in Python

### Posture Monitoring Jacket, C/JavaScript

April 2022

- Developed a jacket that uses flex, accelerometer, and gyroscope sensors to track posture and wrote Arduino code for calibration and interaction between the jacket and web server running JavaScript.
- Devised a physical alert system using a vibration motor to notify the user of incorrect posture and provide haptic feedback to correct posture.

## ENGINEERING STUDENT TEAMS

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### Open Robotics RoboCup, UBC Gripper Lead

September 2021 - Present

- Successfully compiled and calibrated force sensitive resistors for the gripper's individual fingers, which was crucial for the hand's ability to delicately grip and manipulate objects.
- Assisted in the machining of over 50 individual parts for the robotic hand, ensuring tight tolerances were met.
- Supported the creation and assembly of the gripper, which will be used in the RoboCup Competition.

## VOLUNTEER EXPERIENCE

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### Premier Outreach Club, Nairobi, Kenya Team Leader

August 2019 – June 2020

- Led a team of 30 people in various charity events and fundraisers which raised over \$1000 for various hospitals
- Organized and oversaw all aspects of the events, from planning to execution
- Made sure that all team members were on task and working towards the common goal

## AWARDS

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President's Award (Kenya)

2019

Outstanding International Student Award

2020

## PROFESSIONAL AFFILIATIONS

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Member of EGBC

2021 – Present

## INTERESTS & ACTIVITIES

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- Hiking
- Computer Hardware/Design
- Space
- Fencing