

# Rabiya Majeed

2B Electrical Engineering



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rabiyaamajeed.github.io



github.com/rabiyaamajeed

## SKILLS

**Languages:** C / C++, VHDL, MATLAB, PowerShell, HTML, CSS, ARM Assembly  
**Hardware Tools:** Arduino, Proteus, Quartus, Altium, PSIM  
**Software Tools:** Git, Eclipse, VS Code, Jira, Confluence, Trello, PowerShell ISE

## EXPERIENCE

### Electrical Sub-Team Member

Sept 2020 – Present

*Waterloo Formula Electric*

- Utilized Altium Designer to improve schematics and PCB layouts for the Battery Management Unit
- Researched and designed an analog safety check for the closing contactors in the Battery Management Unit to ensure they are only enabled if above a certain voltage
- Worked with other team members to create a system-level master wiring diagram of the car's electrical and tractive systems

### Computing Assistant

Jan 2021 – April 2021

*Arts Computing Office – University of Waterloo*

- Automated the process of creating security groups in active directory by implementing a PowerShell script
- Created a proposal and lead a project to increase undergraduate engagement with the Arts Computing Office by informing them of the office's activities
- Worked with an interdisciplinary team to increase the efficiency of co-op onboarding by reducing redundancies in documentation and shifting them to Confluence

### Computing Assistant

May 2020 – Aug 2020

*Arts Computing Office – University of Waterloo*

- Designed script using PowerShell and HTML to programmatically create user reports for department managers. Serves over 15 departments and helps user to easily free up space in their shares
- Communicated with team members to answer multiple IT support emails, Jira tickets, LiveChat and Voicemail in a timely manner

## EDUCATION

**Candidate for BAsC in Electrical Engineering, University of Waterloo – Class of 2024**

- Data Structures and Algorithms (C++)
- Signals and Systems
- Electromechanical Energy Conversion
- Digital Computers (ARM)
- Completed Student Leadership program

## EXTRACURRICULARS

### Academic Representative

- Communicated class feedback and questions to professors and faculty at termly meetings and through email
- Relayed complaints to professors on behalf of other classmates

### Iron Warrior – Writer/Contributor

- Worked as a continuing contributor to the Engineering Societies newspaper
- Wrote articles about emerging technology and the gaming industry

## INTERESTS

- Gaming, cycling, baking, handicrafts of any sort