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## EDUCATION

**McMaster University** | Hamilton, ON | Bachelor of Computer Engineering Sept 2017 – April 2022 [Expected]

Relevant Courses: Fundamentals of Machine Learning (Python), Software Development (JavaScript & Matlab), Data Structures & Algorithms (Java), Principles of Programming (Java), Digital Systems Design, Computer Aided Engineering

## WORK EXPERIENCE

**Advanced Micro Devices (AMD)** | Markham, ON | Display Architecture Intern May 2020 - Present

- Created a program for AMD customers to convert display connector data into binary data to flash ROMs using **C#**, which significantly reduced human errors and decreased procedure time
- Collaborated with different teams to make a design guide for the application which contained requirements, flowcharts of processes, language and program of choice, and a test plan with importance to user perspective
- Utilized **Jira** to lead development of utility for display connectors and wrote debug plan to test program
- Created scripts using **Matlab** and **Python** to reduce testing time and eliminate external errors
- Reviewed client schematics and layouts to ensure AMD requirements were met before production
- Wrote a technical design guide containing hardware and software requirements for engineers to follow

**McMaster University** | Hamilton, ON | IT Assistant (Full/Part Time) May 2017 - April 2020

- Utilized **JavaScript** to contribute to patient check-in program to create a contactless check-in system and reduce lines
- Rewrote code section to utilize barcode scanning instead of swipe scanning, increasing success rate from 35% to 100%
- Self-taught and completed upgrade of WordPress website using Ubuntu terminal within two weeks
- Created standard software/hardware documentation and provided technical guidance to 100+ staff/faculty members

## PROJECTS

**mahimulhoque.com** January 2021 - Present

- Created a personal website to show my experiences and projects using **ReactJS** and **Firebase** hosting
- The project's focus was writing clean and scalable code, which was done by creating meaningful and efficient components that contain separated function and style files
- The website also takes into consideration being responsive through various screen sizes from monitors to mobile

**Pacemaker Prototype** September 2019 - December 2019

- Collaborated with 4 colleagues to create fully functioning physical pacemaker prototype with web interface to monitor and adjust pacemaker data
- Lead the design and programming of control system for all the pacemaker functions, data conversion and data transfer from web app to device using **MATLAB Simulink**

**Hardware Image Decompressor** September 2019 – December 2019

- Built and programmed image decompression circuitry using **Altera DE-115** board and **Verilog**
- Decompressed image from YCBCR 4:2:0 to RGB 4:4:4 and displayed on monitor with 95% hardware re-utilization and VGA controller

## SKILLS

**Languages:** Java, Python, JavaScript, C#, HTML/CSS, Matlab, C++, Verilog

**Technologies:** React, Node.js, Firebase, Electron, jQuery, Perforce, Jira