

Arun. Cheriakara

ELECTRICAL ENGINEER · PROGRAMMER

6086 Tenth Line West, Mississauga, Ontario, L5N5S4

☎ (+1) 647-632-0803 | ✉ aruncheriakara@gmail.com | 🌐 aruncheriakara

Education

University of Ottawa

Ottawa, Ontario

BASC IN ELECTRICAL ENGINEERING

Sept. 2018 - April. 2023

- Dean's honour list with a GPA of 3.9/4.0
- Undergraduate courses: Introduction to Data Communications and Networking, Digital Signal Processing, Wireless Communication, Electronics

Skills

Programming Python, C/C++, Embedded C, Jupyter, Pandas, HTML, CSS, JavaScript, Node.js, MATLAB, Assembly

Software Git, JIRA, Confluence, Agile, Multisim, EagleCAD

Experience Schematic And Circuit design, PCB Design, SPI, I2C, Micro-controller

Experience

Innovation, Science and Economic Development Canada

Ottawa, Ontario

TELECOMMUNICATION ENGINEER

May. 2022 - Aug. 2022

- Collecting data and scripting solutions using Python and MATLAB
- Reviewing and verifying licensing of space stations such as TELESAT and SES
- Calculating Antenna gains and Losses throughout different satellites and verifying them
- Antenna matching, tuning, measurements, and spectrum analysis
- Understand the fundamental of radio communications protocol and how different frequency bands in Canada operate

Curtiss-Wright

Ottawa, Ontario

HARDWARE DESIGNER

Sep. 2021 - Dec. 2021

- Used High-speed logic analyzers and digital oscilloscopes in the lab for testing and verification
- Test and debug of high-speed signals during an initial bring-up phase
- Develop scripts using TeraTerm, Python, C/C++ languages to verify the hardware
- Working knowledge of TPM, I2C and SPI bus cycle and how to implement a solution to the hardware
- Performed schematic design and work with the CAD team on PCB layout
- Gained knowledge in using JIRA and Confluence

Arkalumen

Ottawa, Ontario

HARDWARE DESIGNER

Jan. 2021 - May. 2021

- Worked under senior electrical engineers to design PCB's and designed multiple PCB's throughout the term
- Obtain a solid understanding of embedded application development by learning Assembly
- Able to translate Assembly to C programming and verify it by uploading to the hardware

University of Ottawa

Ottawa, Ontario

HARDWARE BUILDER FOR BT BEACON TECHNOLOGY

May. 2020 - Sep. 2020

- Designed a functional Hardware/Software that is able to measure the distance between two devices for Social distancing (Covid-19)
- Implemented commands using Embedded C programming for the Bluetooth chip
- Excellent working knowledge in C++
- Developed several tests to verify the compatibility of the hardware (smoke test, robustness test)

Projects

Remote Control of Robotic Arm

Ottawa, Ontario

CORE MEMBER

Jan. 2021 - PRESENT

- Built a robotic arm that is remote controlled through a glove
- Used Web sockets to establish a client/server connection to control the arm through JavaScript
- Parsed the data coming from glove into JSON format so the arm can receive the incoming data remotely