ARUSHAN SINNADURAI

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EDUCATION

CARLETON UNIVERSITY – BACHELOR OF ENGINEERING   **September 2016 – Present**
B.Eng., Ottawa, ON – Major: Biomedical & Electrical Engineering

WORK/PROJECT EXPERIENCE

Kinaxis, Ottawa, ON   **September 2019 – September 2020**
Software Test Developer Intern
- Developed automation test cases using Junit, Scripts, and running tests on the eclipse environment
- Created microservice to move data smoothly and efficiently into the RapidResponse database
- Used cutting-edge microservice architecture through technologies such as Kafka, Docker, Kubernetes, and Helm

University of Ottawa Heart Institute, Ottawa, ON   **May 2019 – September 2019**
EPIC Radiology Implementation Support
- Provided on-site technical support for Electronic Health Information System
- Aided in the integration, troubleshooting and implementation of the software system
- Assisted administrative staff and technologists to complete registration, booking, and documentation for cardiac imaging tests
- Analyzed workflows to determine efficient use of health information system software and developed best practices for diagnostic imaging documentation

Carleton University Medical Device Design Team, Ottawa, ON   **September 2017 – September 2018**
Team Member
- Collaborated with a team of Carleton University students to design an EMG controlled prosthetic hand
- Created a circuit using Arduino that read measurements from Myo Armband to control multiple servo motors

CARLETON PLANETARY ROBOTICS TEAM, Ottawa, ON   **September 2017 – January 2018**
Team Member
- Collaborated with a group of engineers from various fields to construct a rover, which meets the criteria for the University Rover Challenge Competition
- Constructed an internal box containing the router to relay information to other boxes present in the rover
- Soldered and created circuits that were implemented inside the rover

RELEVANT SKILLS AND INTERESTS

Technical/Communication Skills
- Designed multiple different programming scripts using C, Java, C++, Python and JavaScript to compute equations for various problems such as projectile motions
- Developed projects that handle several data structures like linked list, stacks and queues using C and java languages, demonstrating a deeper understanding in computer programming concepts
- Developed projects that deal with interactive graphical user interfaces (GUIs) and movement control with key listener interfaces through java, thus showing a deeper understanding in the java language
- Created a 3-D model of a flower pot using PTC CREO which self-waters the plant for a reverse engineering project
- Designed many projects using MATLAB which compute answers to various real-world engineering problems
- Designed different types of posters such as marketing and educational materials using Adobe Photoshop
- Created a project proposal and reported findings for the purpose of communicating ideas for health and safety systems to be potentially used in the new Brewer Park sports facility
- Collaborated with team members to create and present research ideas to the project leader, David Chernushenko, Councilor of the Capital Ward Ottawa

INTERESTS: Volleyball; Tennis; Basketball; Hiking; Travelling; Business Books and Magazines; Networking