SRI GANNAVARAPU

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TECHNICAL SKILLS

PROGRAMMING

- Python
- C++/C/Java
- Javascript
- Verilog/VHDL

SOFTWARE

- CATIA
- SolidWorks
- AutoCad Electrical
- MATLAB and Simulink

AUTOMATION

- Fanuc Robot Programming
- Cognex Vision Systems

PROTOTYPING

- Raspberry Pi
- Oscilloscope, multi-meter
- UART/I2C/SPI
- FPGA design
- Soldering

AWARDS

ACADEMIC

- 2019 Dean's Honour List (Average of 80% or above)
- 2017 Lorraine Ivey
- Shuttleworth Continuing Awards Program (**$12,000**)
- 2014 Western's 125th Anniversary Alumni Award (**$1500**)
- 2014 Western Scholarship of Excellence (**$2000**)

HACKATHONS

- RU Hacks, Best Client Experience (2018)
- Electric City Hacks, 2nd Place (2017)

EDUCATION

M.A.SC, ELECTRICAL ENGINEERING
MCGILL UNIVERSITY | SEPT 2020-PRESENT

B.E.SC, MECHATRONIC SYSTEMS ENGINEERING WITH DISTINCTION
WESTERN UNIVERSITY | 2014 - 2019
GPA: 3.8/4

WORK EXPERIENCE

RESEARCH STUDENT
SHARED REALITY LAB | JUNE 2019 - MAY 2020

- Developing a JavaScript API to interact with and control a grounded force feedback device (link Github)
- Designed and conducted fundamental haptic perception user studies
- Co-authoring manuscripts for research papers

CONTROL SYSTEMS ENGINEER
BROCK SOLUTIONS | JUNE 2019 - MAY 2020

- **Saved 40 hours per project** by automating technical engineering drawings using scripting·
- Built & managed relationships with diverse stakeholders·
- Developed & tested PLC logic to implement automation on new industrial robotic assembly lines ·

MECHATRONICS ENGINEERING INTERN
HONDA OF CANADA MFG | MAY 2017 - SEPT 2018

- Programmed PLCs & HMI displays to increase process efficiency & highlight critical information to streamline troubleshooting
- **Reduced cycle time by 2%** by designing & deploying mechanical jigs to improve consistency
- Used root-cause analysis to launch new furnace reliability plan that **doubled the life of existing equipment**
- Managed expenditures totaling 2 million CAD over four projects
- Generated detailed technical documentation & presentations to share knowledge

PROJECTS

FULL PROJECT LIST AVAIABLE HERE:

INTERACTIVE MULTIMODAL IMAGE
MCGILL UNIVERSITY, IEEE WHC 2021 | SEPT 2018 - APR 2019

- A multidisciplinary federally-funded project to make web graphics accessible for the blind population
- Developing renderings for haptic interactions to describe the web graphics
- Co-designing user studies to understand the needs of the target population
- Currently working on the expansion of codebase to include iOS

MECHATRONIC BRACE FOR UPPER ARM REHABILITATION
WESTERN UNIVERSITY, WEARME LAB | SEPT 2018 - APR 2019

- A wireless, wearable brace for rehabilitating upper limb injuries
- Implemented signal processing of EEG and EMG data using Python on an embedded Raspberry Pi
- Performed data analysis & visualization using Python & MATLAB
- Controlled motor actuation using C++ & RS232 protocol