SRI GANNAVARAPU

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TECHNICAL SKILLS

PROGRAMMING

- C++
- Python
- Arduino
- HTML

SOFTWARE

- CATIA
- SolidWorks
- AutoCad Electrical
- MATLAB and Simulink

AUTOMATION

- PLC Programming
- Fanuc Robot Programming
- Cognex Vision Systems

PROTOTYPING

- Raspberry Pi
- 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

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

WORK EXPERIENCE

CONTROL SYSTEMS ENGINEER
BROCK SOLUTIONS | JUNE 2019 - PRESENT

- **Save 40 hours per project** by automating technical engineering drawings using scripting·
- Building & managing relationships with diverse stakeholders·
- Developing & testing 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

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

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

GROW WITH THE FLOW
ELECTRIC CITY HACKS | NOV 2017

- Designed a closed loop self-watering system to optimize soil moisture for houseplants at a 36-hour hackathon
- Created a functional prototype using Arduino, C++, a soil moisture sensor & a DC motor
- Improved system performance by troubleshooting electrical issues & refining sensor calibration

SCORPION BOT
WESTERN UNIVERSITY | APR 2016

- Designed an autonomous walking robot with a 3 DOF arm to find and retrieve objects·
- Conducted end-to-end analysis to define sensor & actuator performance requirements & specifications
- Programmed the navigation & obstacle avoidance software in C++ using I2C communication