SRI GANNAVARAPU

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EDUCATION

4ᵗʰ year, B.Esc, Mechatronic Systems   **Sep 2014 – May 2019**
Engineering
Western University, London, ON
- Professional Internship

WORK EXPERIENCE

Mechatronics Engineering Intern   **May 2017 - Sep 2018**
Honda of Canada Mfg., Alliston, ON
- Applied PLC and HMI programming to visualize cycle times and process flow to aid in troubleshooting
- Designed and implemented jigs to improve consistency of processes
- Managed the spending of over two million CAD through four projects
- Worked closely with furnace reliability group to double the life of existing equipment

Research Student   **May 2016- Sep 2016**
Department of Biology, Western University
- Initiated an inter-disciplinary project, aimed to genetically engineer an organism to degrade cellulose
- Co-developed and mentored a summer research program for undergraduate students

PROJECTS

Mechatronic Brace for Upper Limb   **Sep 2018-Present**
Injury Rehabilitation
- Designed a wireless wearable brace to aid in the rehabilitation of upper limb injuries
- Designed housing for all components and modelled brace in Solidworks to perform FEA analysis
- Implemented preliminary signal processing of EMG sensor data on embedded RaspberryPI

Tap ATM   **May 2018**
- Mobile application to offload the ATM process and reduce wait times at the ATM
- Built a python server using flask to communicate between ATM and mobile application

Grow with the Flow   **Nov 2017**
- Designed a self watering system to provide optimal soil moisture for a plant using Arduino
- Creatively engineered protype with minimal materials while working around electrical power issues
- Worked on integration to Qualcomm Dragonboard

ScorpionBot   **Apr 2016**
- Autonomous mobile robot with a 3 DOF arm designed to detect and collect objects
- Programmed microcontroller, 3D modelled chassis, and designed circuit board

TECHNICAL SKILLS

----------*Programming*----------
    C++
    Arduino
    Python
    VHDL
    JavaScript
----------*Automation*----------
    PLC Programming
    Cognex Vision Systems
    FANUC Robotics
----------*Software*----------
    MATLAB
    Simulink
    LabVIEW
    Solidworks
    AutoCad Electrical
----------*Prototyping*----------
    RaspberryPI
    PCB design
    FPGA

AWARDS

Academic
----------*2018*----------
- Dean's Honour List (Average of 80% or above)
----------*2017*----------
- Lorraine Ivey Shuttleworth Continuing Awards Program (*$12,000*)
- Western Scholarship of Excellence (*$2000*)
----------*2015*----------
- Western's 125th Anniversary Alumni Award (*$1500*)

Hackathons
----------*2018*----------
- RUHacks, Best Client Experience
----------*2017*----------
- Hack Western IV, Best Fin Tech Hack
- Electric City Hacks, 2ⁿᵈ Place
----------*2015*----------
- Hack Western II, Best Fin Tech Hack