Gavin S. Lim

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WORK EXPERIENCE

Intel Corporation, Vancouver, BC   May 2017 – Sept 2018
Hardware Engineering Intern
- Executed full system validation test of Power Management Integrate Circuits (PMICs) in SSDs
- Developed the schematic and layout of a MCU board for 1000hr Reliability Demonstration Test (Cadence)
- Applied LTSpice simulation for ADC circuit calculation for internal validation board
- Liaised with overseas ODM vendors on a weekly basis to evaluate failure analysis and bug tracking
- Received Intel recognition for quality of work and contribution in the form of CAD$298 bonus within 16 months

FLIR Systems, Richmond, BC   May 2016 – Sept. 2016
Technical Support Intern
- Troubleshot hardware and firmware issues of USB 3.0, GigE, and FireWire-based camera systems
- Received exposure to computer and machine vision, digital camera knowledge, and imaging parameters
- Developed a command line application using FLIR C++ API to modify 100 camera settings sequentially
- Reproduced software bugs in Ubuntu and Windows environment

PROJECTS

Rover Positioning and Scanning System (Capstone Project)   Sept 2018 - Present
- Developing the architecture software of an unmanned ground robotic platform using C++ and ROS
- Integrating GPS, IMU, and camera sensor in Ubuntu environment for positional and navigation control

Autonomous Unmanned Robotic Sailboat (UBC Sailbot)   Jan 2016 - Present
- Initiated and implemented a $6,000 monocrystalline PV system coupled with 18650 Li-Ion batteries and MPPT
- Spearheaded 96-hour validation test of 18V battery charging and discharging characteristic for functional analysis

Flashing Christmas Sweater   Dec 2015 / Dec 2016 / Dec 2017
- Christmas Sweater + LEDs + 555 IC Timer + Patient Girlfriend = Annual Tradition of Holiday Spirit
- Schematic and PCB layout design using Altium Designer and Digikey-sourced components

LEADERSHIP

UBC Sailbot, Vancouver, BC   Jan 2016 - Present
Electrical Team Lead
- Led cross-functional 10+ person team to develop and implement electrical projects of a robotic sailboat
- Stakeholder and decision maker for the team's motor protection, power (battery, PV), and antenna sensor projects
- Liaised with academic and sponsor companies for design review sessions

EDUCATION

University of British Columbia   Expected May 2019
Bachelor of Applied Science, Electrical Engineering – Class of 2019
Bachelor of Science, Biotechnology (Honors) – Class of 2015