

# Jeremy Roy

## OBJECTIVE

---

Find a job that allows me to work with mobile robots, robotic manipulators, and/or embedded systems. I am particularly interested in working directly with hardware.

## SKILLS

---

<b>Communication</b>	Fully bilingual (French, English)
<b>Computer Languages</b>	C++, PYTHON, TCL, BASH, JAVA, VHDL
<b>Tools</b>	ROS, GIT, L <sup>A</sup> T <sub>E</sub> X, SVN, Mercurial, Code Composer Studio, Quartus II, Vivado, Microsoft Office
<b>OS Experience</b>	Linux, TI-RTOS, Microsoft Windows

## RELEVANT EXPERIENCE

---

JUNE 2018 - PRESENT

Research Assistant  
*Ingenuity Labs: Offroad Robotics, Queen's University*

- Developing a wavelet-based technique for terrain surface mapping using data from inertial sensors
- Troubleshoot and repaired hardware and software issues on multiple robotic platforms and a GNSS RTK base station
- Presented posters at the 2019 NSERC Canadian Robotics Network AGM and the 2019 Queen's University Faculty of Engineering and Applied Science Research Symposium
- Mentored undergraduate research assistants in electronic design and software development

MAY 2016 - JULY 2017

Software Engineering Intern  
*Neptec Design Group*

- Developed and maintained ROS drivers for the Canadian Space Agency's Juno II rover
- Designed and implemented embedded software for TI-RTOS and BLE
- Investigated hardware errors on custom-made processing boards
- Assisted in requirements analysis for a European Space Agency flight project (PROBA-3 FLLS)

MARCH 2015 - JUNE 2016

Software Team Manager  
*Queen's Mostly Autonomous Sailboat Team*

- Performed system-level debugging while integrating hardware and software components
- Tutored new team members by running GIT, Redmine, and Arduino workshops
- Communicated the progress of the software team to the rest of the executive team
- Placed 2nd at the 2016 International Robotic Sailing Regatta (IRSR)

416-570-2059  
jeremy.roy@queensu.ca  
linkedin.com/in/jérémy-roy  
offroad.engineering.queensu.ca/people/jeremy-roy/

## EDUCATION

---

2018 – PRESENT **MASc Candidate**  
ELECTRICAL AND COMPUTER  
ENGINEERING  
*Queen's University*  
Graduating in Fall 2020

2013 – 2018 **BASc**  
COMPUTER ENGINEERING  
*Queen's University*  
GPA: 4.1/4.3 (Cumulative)

2009 – 2013 **IB Diploma & OSSD**  
*ESC Renaissance*  
Bilingual Diploma (French, English)  
Graduated with 95% average

## RECENT AWARDS

---

2019 **NSERC CGS-M Scholarship**  
Value of \$17,500  
*Queen's University*

2018 **Ontario Graduate Scholarship (OGS)**  
Value of \$15,000  
*Queen's University*

**Medal in Computer Engineering, 2018**  
Highest class average in 3rd and 4th year  
*Queen's University*

**Dean's Scholar Certificate**  
Achieved Dean's Scholar status throughout all 4 years of undergrad  
*Queen's University*

**ECE Design Competition Award**  
Electrical Engineering Capstone Project  
3rd place  
*Queen's University*