

JOHN LIAN

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EDUCATION

MCGILL UNIVERSITY

SEPT. 2010 - MAY 2015

Bachelor's Degree, Honours Mechanical Engineering - Internship Program

Montreal, QC

- J. W. McConnell Scholarship, Richard Lawrence Weldon Scholarship, & Faculty of Engineering Scholarship.
- GPA: 3.59/4.00.

LEADERSHIP

FOUNDER AND PROGRAM COORDINATOR

SEPT. 2013 - APR. 2015

FRC Team 4955, Robotique FIRST Québec & Fusion Jeunesse

Montreal, QC

- Led a team of 40 individuals into their first entrance into FRC, winning the \$7,000 FRC Rookie Grant.
- Coordinated development of two 120-lb remote controlled robots - each within six weeks.
- Implemented team sustainability strategies and managed long term goals, achieving 100% return rate in Year 2.

EXPERIENCE

ROBOTICS ENGINEER

JULY 2015 - PRESENT

Pleiades Robotics

Montreal, QC

- Spearheaded *Scrum* project management initiative across software, computer vision, and mechanical divisions.
- Integrated ROS with MAVLink-driven quadcopter and machine vision applications.
- Defined and developed autonomous flight programs with Dronekit.

UNDERGRADUATE RESEARCHER

JAN. 2014 - DEC. 2014

Prof. Andrew Higgins, McGill University

Montreal, QC

- Led a small team to build an air-bearing device for levitating ring magnets.
- Developed and open-sourced MATLAB particle tracking and numerical simulator applications.

SYSTEMS INTEGRATION INTERN

SEPT. 2013 - DEC. 2013

Bombardier Aerospace

Montreal, QC

- Produced systems documentations to aid ARP4754 adherence.
- Coordinated review of over 100 aerospace component qualification packages with suppliers.
- Developed a standard review procedure resulting in accelerated qualification phase.
- Created and implemented Excel VBA macros, increasing team efficiency.

MAINTENANCE ENGINEER INTERN

OCT. 2012 - DEC. 2012

Suncor Energy

Fort McMurray, AB

- Analyzed and categorized over 500 failure cases and recorded them into SAP.
- Investigated 10 high-profile failures and authored their failure reports.
- Led development of a workshop safety initiative.

SKILLS

- **Full stack UAV robotics development:** ROS, mavros, Dronekit, MAVLink, ArduPilot, PX4, and Git.
- **Scientific computing:** MATLAB, Python, and LabVIEW.
- **CAD:** SolidWorks, AutoCAD, and Inventor.
- **Languages:** Excel VBA, Python, C++, MATLAB, Java, Bash, LaTeX, HTML, CSS, and Mandarin Chinese.