JOHN LIAN

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EXPERIENCE

ROBOTICS ENGINEER JULY 2015 - PRESENT

Pleiades Robotics

Montreal, QC

- Integration of ROS with MAVLink-driven quadcopter
- Development of autonomous flight programs with Dronekit
- Spearheaded Scrum project management initiative

UNDERGRADUATE RESEARCHER

JAN. 2014 - DEC. 2014

Prof. Andrew Higgins, SWPG McGill

Montreal, QC

- Designed and built an air-bearing apparatus for levitating ring magnets
- Developed a open source MATLAB particle tracking application
- Created a graphical MATLAB numerical simulator for nonlinear interactions

SYSTEMS INTEGRATION INTERN

FALL 2013

Bombardier Aerospace

Montreal, QC

- Conducted review of over 100 aerospace component qualification packages
- Developed a standard review procedure resulting in accelerated qualification phase
- Created and implemented 5 Excel VBA macros to reduce team workload

MAINTENANCE ENGINEER INTERN

FALL 2012

Suncor Energy Fort McMurray, AB

- Analyzed and categorized over 500 failure cases into SAP
- Investigated 10 high-profile failures and authored their failure reports
- Spearheaded a workshop safety initiative

LEADERSHIP

FOUNDER AND PROGRAM COORDINATOR

SEPT. 2013 - APR. 2015

FRC Team 4955, Robotique FIRST Québec & Fusion Jeunesse

Montreal, QC

- Lead 30 students and 10 mentors across mechanical, software, electrical, and business divisions
- Coordinated development of two 120-lb remote controlled robots each within six weeks
- Implemented team sustainability strategies, winning FRC Rookie Grant (\$7,000 over three years)

EDUCATION

McGILL UNIVERSITY 2010 - 2015

Bachelor of Honours Mechanical Engineering

Montreal,QC

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

SKILLS

- Full-stack UAV robotics development with ROS, mavros, Dronekit, MAVLink, ardupilot, and PX4
- Scientific computing using MATLAB, Python, and occasionally LabVIEW
- CAD using SolidWorks, AutoCAD, and Inventor
- Languages: Python, C++, MATLAB, Java, Excel VBA, LaTeX, HTML, CSS, and Mandarin Chinese