JOHN LIAN

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OBJECTIVE

I am looking for a full-time systems engineering, project management, or product design position in robotics or another high-tech industry.

EDUCATION

McGILL UNIVERSITY   2010 - 2015

Bachelor of Honours Mechanical Engineering   *Montreal, QC*

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

LEADERSHIP

CO-FOUNDER AND PROGRAM COORDINATOR   2013 - 2015

FRC Team 4955, Robotique FIRST Québec & Youth Fusion   *Montreal, QC*

• Co-founded an FRC team while being a full-time university student
• Supervised 30 students across Mechanical, Software, Electrical, and Business divisions
• Lead development, from concept to deployment, of two 120-lb remote controlled robots - each within six weeks
• Implemented long-term strategy and sustainability measures, winning FRC Rookie Grant ($7,000 over three years)

WORK EXPERIENCE

UNDERGRADUATE RESEARCHER   SUMMER 2014

Prof. Andrew Higgins   *Montreal, QC*

• Lead a team to design and build an air-bearing experimental apparatus to study nonlinear wave mechanics
• Developed a MATLAB particle-tracking program to capture and analyze footages
• Created a user-friendly MATLAB program for simulation comparison

SYSTEMS INTEGRATION INTERN   FALL 2013

Bombardier Aerospace   *Montreal, QC*

• Conducted first-hand review of supplier delivery of over 100 component qualification/validation packages
• Developed a standard, time-saving review procedure resulting in accelerated qualification phase
• Created and implemented 5 Excel VBA-based scripts for the team to reduce work repetition

MAINTENANCE ENGINEER INTERN   FALL 2012

Suncor Energy   *Fort McMurray, AB*

• Analyzed and categorized over 500 failure cases into SAP database
• Investigated 10 high-profile failures and authored their failure reports
• Developed a workshop safety initiative by experimentally determining critical values

SKILLS

• **Engineering Software:** SolidWorks, AutoCAD, Autodesk Inventor, ANSYS, LabVIEW
• **Programming:** MATLAB, Python, Java, C, FORTRAN, Excel VBA, LaTeX, CSS, HTML
• **Other Software**: SAP, Mathematica, Maple, Microsoft Office, Adobe Creative Suite
• **Languages**: Fluent English and Mandarin Chinese