Jean Nassar | Résumé

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Interests: Automation, AI, robotics, statistics, space, anatomy
Citizenships: Canada, Lebanon, Sierra Leone
Certifications: CPR HCP (Health Care Provider), Lebanese driving license

Education

MS Mechanical Engineering Science — **2014–Present**
Kyoto University, Mechatronics Laboratory — *Kyoto, Japan*

Research student — **2013–2014**
Kyoto University, Mechatronics Laboratory — *Kyoto, Japan*

BASc, Honours Mechatronics Engineering — **2008–2013**
University of Waterloo — *Waterloo, ON*

Publications

1. "Developing a System of Superimposed Past Image Records Implemented for Teleoperation of an Unmanned Multirotor." Jean Nassar. Supervisor: Fumitoshi Matsuno. Masters thesis, Kyoto University, 2016.

Co-op experience

Starquip Integrated Systems, Ltd — **Spring 2012**
Junior Engineer — *Toronto, ON*

- Assisted in the mechanical design of custom pneumatic lift-assist devices
- Created modular assemblies and circuits
- Reduced design time for new systems
- Converted 2D drawings to 3D assemblies
- Produced ASME-compliant drawings

Kevin Quan Studios, Ltd — **Fall 2011**
Junior Project Engineer — *Toronto, ON*

- Completed basic and intermediate Solidworks instruction
- Created assemblies and drawings of mountain and racing bicycles
- Wrote airfoil generator and exporter using LibreOffice Calc, Python
- Performed 2D and 3D CFD analysis of airfoils and bicycles
- Determined the optimum configuration for several racing bicycles
- Designed tooling molds and parts for various bicycle components

Intelligent Mechatronics Systems, Inc — **Winter 2011**
Hardware Associate — *Waterloo, ON*

- Prototyped hardware solutions for future products
- Provided general assistance to lead design engineers

University of Waterloo **Spring 2010**
Research Assistant, Multiscale Additive Manufacturing Lab *Waterloo, ON*

- Designed, procured, and built essential parts for the enclosure, printhead assembly, and environmental isolation system for a solid freeform fabrication workstation
- Workstation produces 3D scaffolds for bone and cartilage regrowth
- Performed image processing on electron micrographs using Octave

American University of Beirut **Fall 2009**
Research Assistant, Computer Vision and Mobile Robotics Lab *Beirut, Lebanon*

- Researched and developed a positional navigation system for robots
- Quantized Inertial Measurement Unit (IMU) error

Sierra Construction Systems, Ltd **Winter 2009**
Engineer in Training *Freetown, Sierra Leone*

- Computerized payroll and significantly saved time and resources using Microsoft Excel, Word, and VBA programming
- Payroll productivity increased by approximately 6000%
- Performed cost and time estimation for various construction projects

Selected projects

- Software lead for lab's teleoperation robot, built from scratch
- Automation of assembly line robot (Allen-Bradley PLCs)
- Résumé and cover letter generator (Python, Jinja, and LaTeX)

Selected courses

- Robotics
- Automatic control systems
- Mechatronic system integration
- Electromechanical machine design
- Modern control theory
- Finite element analysis
- Microproc. systems and interfacing
- Algorithms and data structures

Technical skills

- Python (incl. SciPy stack), C++, C, ROS, Matlab, gnuplot, LaTeX
- Linux (Arch, Fedora, Ubuntu), Microsoft Windows (XP to 10)
- Raspberry Pi, Arduino, mbed, AVR, Allen Bradley PLC
- Solidworks, Autodesk Inventor, AutoCAD, Sketchup
- Vim, Git, Gimp, Inkscape, LibreOffice, Microsoft Office

Natural languages

Fluent: English, French, Lebanese, Japanese
Intermediate: Spanish, Arabic
Beginner: German, Mandarin, Russian, Krio