

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 <i>Kyoto University, Mechatronics Laboratory</i>	2014–Present <i>Kyoto, Japan</i>
Research student <i>Kyoto University, Mechatronics Laboratory</i>	2013–2014 <i>Kyoto, Japan</i>
BASc, Honours Mechatronics Engineering <i>University of Waterloo</i>	2008–2013 <i>Waterloo, ON</i>

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 <i>Junior Engineer</i> <ul style="list-style-type: none">○ 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	Spring 2012 <i>Toronto, ON</i>
Kevin Quan Studios, Ltd <i>Junior Project Engineer</i> <ul style="list-style-type: none">○ 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	Fall 2011 <i>Toronto, ON</i>
Intelligent Mechatronics Systems, Inc <i>Hardware Associate</i> <ul style="list-style-type: none">○ Prototyped hardware solutions for future products○ Provided general assistance to lead design engineers	Winter 2011 <i>Waterloo, ON</i>

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 L^AT_EX)

Selected courses

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

Technical skills

- Python (incl. SciPy stack), C++, C, ROS, Matlab, gnuplot, L^AT_EX
- 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