

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, Kyoto University, Mechatronics Laboratory, Kyoto, Japan. 2014–Present

Research student, Kyoto University, Mechatronics Laboratory, Kyoto, Japan. 2013–2014

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

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

Junior Engineer, Starquip Integrated Systems, Ltd, Toronto, ON. Spring 2012

- 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

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

- 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

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

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

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

- 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

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

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

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

- 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