# Angus Leigh

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**EDUCATION**

**McGill University** — *Sept 2013–August 2015 (expected)*
MSc, Computer Science. Supervised by Joelle Pineau — *Montreal, QC*
*Specializing in machine learning, robotics and computer vision*

**University of Waterloo** — *2008–2013*
BASc with Distinction in Systems Design Engineering — *Waterloo, ON*
*German minor. Cumulative GPA: 87%*

**Technische Universität Braunschweig** — *Fall 2011–Spring 2012*
Study Abroad Semester — *Braunschweig, Germany*
*Completed full engineering course load in foreign language*

**EXPERIENCE**

**Reasoning & Learning Lab**, *Research Assistant, McGill University* — *2013–present*
*Current project:* Vision-based robot localization using deep learning
*Completed project:* Autonomous person tracking and following with 2D laser scanners

**Teaching Assistant**, *McGill University, Montreal*
COMP-424: Artificial Intelligence — *Winter 2015*
COMP-598: Applied Machine Learning — *Fall 2014*

**Siemens R&D**, *Robotics Eng. Student Developer, Munich, Germany* — *Summer 2012*
Developed a simulated robotic model of an electric car in C++ and ROS

**Durridge Co.**, *Systems Design Eng. Student, Billerica, MA, USA* — *Winter 2011*
Firmware (C) and electrical design (EAGLE) of a novel Radon-detection device

**Vision & Image Processing Lab**, *Undergrad. Research Assistant, Waterloo* — *Fall 2010*

**Automation Engineering Assoc.**, *Design Eng. Student, Toronto* — *Summer 2010*

**Human Resources Canada**, *.NET Programmer, Ottawa* — *Fall 2009*

**Hatch Ltd.**, *Engineering Assistant, Mississauga* — *Winter 2009*

**PROJECTS**

**Stochastic pooling for convolutional neural networks** *(Graduate class project) 2014*
Implemented a convolutional neural network and benchmarked modern pooling functions

**Autonomous quadrotors** *(Undergraduate Final Year Design Project)* — *2013*
Designed an autonmous object-following quadrotor (C++, OpenCV, ROS)

More projects at https://www.github.com/angusleigh

**PUBLICATIONS**

**A. Leigh**, J. Pineau, N. Olmedo and H. Zhang, "Person Tracking and Following with 2D Laser Scanners", *ICRA*, Seattle, Washington, 2015.

**A. Leigh** et al., "Comprehensive analysis on the effects of noise estimation strategies on image noise artifact suppression performance", *IEEE ISM*, Dana Point, California, 2011.

**AWARDS**

NCFRN Best Product Pitch ($8 000/team seed funding) — *2015*
NSERC Master's Canada Graduate Scholarship ($17 500) — *2013*
Best design project of 4th year engineering class ($500/team) — *2013*

**TECH SKILLS**

C/C++, Python, ROS, OpenCV, PCL, MATLAB, Linux, Git

**LANGUAGES**

English (native), German (fluent), French (intermediate)

**CITIZENSHIP**

Canadian