Tom Stesco

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EDUCATION

ETH ZURICH
MSc in Integrated Building Systems
October 2018 | Zurich, Switzerland

UNIVERSITY OF WATERLOO
BASc in Honours Civil Engineering
June 2016 | Waterloo, ON
With Distinction
Final year average: 90%

LINKS

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COURSEWORK

GRADUATE
Model Predictive Control
Whole Building Simulation
Building Control and Automation
Application of CFD in Buildings
Renewable Energy Technologies
Materials and Constructions
Energy Conversion
Building Physics
Urban Physics

UNDERGRADUATE
Building Science
Building Energy Performance
Air Pollution Control
Contaminant Transport
Civil Systems
Hydraulics
Solid Mechanics
Fluid Mechanics

PROGRAMMING

Over 32 KLOC:
Python
Over 8 KLOC:
C++
Over 4 KLOC:
Bash • SQL • Java • Javascript
Familiar with:
PyMC3 • Theano • Tensorflow
GNU/Linux • git • docker

EXPERIENCE

ECOBEE | Data Scientist
Oct 2018 – present | Toronto, ON
- Research and development of high-level control algorithms for embedded smart thermostat devices.
- Implementation of continuous testing and deployment system for control algorithm software.

ENERGY PROFILES LIMITED | Energy Data Analyst Intern
Sep 2015 – Dec 2015 | Toronto, ON
- Developed equipment issue and data error detection application using energy submeter data.
- Improved internal C# application for estimating missing energy bill data.

AECOM CANADA | Civil Technologist
Jan 2015 – Jun 2015 | Markham, ON
- Worked with water flow sensor technician team to digitize workflow.
- Automated task of importing sensor data and producing reports for clients.

DRAGADOS CANADA | Civil Engineering Student
May 2014 – Aug 2014 | Toronto, ON
- Automated cost estimating and reporting of road and sidewalk closures for Eglinton LRT project bid.
- Analyzed contracts and construction staging plans to help build strategy for lane closures.

UNION PEARSON EXPRESS | Engineering Analyst
Sep 2013 – Dec 2013 | Toronto, ON
- Worked with company executives on transit system pricing strategy.
- Compiled data and consultant reports to model pricing, ridership, and revenue.

RESEARCH

AUTOMATIC CONTROL LAB | Master Student
Sep 2017 – Sep 2018 | Zurich, Switzerland
- Worked with Dr. Annika Eichler on project combining Model Predictive Control and online Bayesian learning for building controls.
- Developed Python API on top of JModelica framework to create MPC models and run building simulation experiments.
- Designed MPC coupled online Bayesian learning models using PyMC3 and deployment environment for training on HPC cluster.

AWARDS & PROGRAMS

2016	Excellence Scholarship & Opportunity Program	ETH Zurich
2016	Engineer of the Future Fund	University of Waterloo
2012	Merit Scholarship	University of Waterloo
2010	SHAD summer program	SHAD Canada