

# Joshua Zastrow

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## PROFESSIONAL EXPERIENCE

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### **Sterling Machine Co. – Precision Aerospace Manufacturing**

*Business Intelligence Engineer*

*May 2014–Present*

*Lynn, MA*

SQL and dashboard development for internal reports across all company departments.

Report design and deployment for KPI reporting, standard reports and company forms.

Develop business process automation workflows, alerts and error checkers.

### **QD Vision – LED Display Technology**

*Display Engineer Co-op*

*July 2013–December 2013*

*Lexington, MA*

Automated data processing and report generation on internal measurement systems.

Assisted with fixture development for product integration into edge-lit displays.

### **Taris Biomedical – Biomedical Devices**

*Product Development Co-op*

*July 2012–December 2012*

*Lexington, MA*

Created SolidWorks models and detailed CAD drawings of manufacturing fixtures, device components and tooling.

Prototyped fixtures for testing and assembly manufacturing, responsible for in-house and out-sourced fabrication.

### **GE Energy – Industrial Solutions**

*Project Engineer Co-op*

*May 2011–December 2011*

*Burlington, MA*

Processed and managed electrical distribution projects for national corporations.

Managed project shipments, distributors, suppliers, delivery schedules, billing reconciliation, and order processing.

## EDUCATION

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### **Northeastern University**

Bachelor of Science in Mechanical Engineering, GPA: 3.5

*May 2014*

*Boston, MA*

### **Activities & Awards**

Magna Cum Laude 2014

- Capstone Design – 1<sup>st</sup> Place 2014

- Engineering for Greater Good – 2<sup>nd</sup> Place 2012

Swim Club 2010-2013

- Maimonides Leadership program 2012

- Honors Program mentor 2010

## SKILLS

Python, Data Science/ML

- Visual Basic, Excel Data Visualization

- LINUX, Raspberry Pi projects

SQL, SQL Server Reporting

- AWS Lambda, Server-less REST API

- MATLAB, Machine Learning, Simulink

## PROJECTS

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### **Housing Prediction Engine – End to End Machine Learning Web Application**

Data analysis, machine learning model development and deployment to a web based user interface.

### **Convolutional Neural Networks - Image Classification on CIFAR10 Dataset**

A dive into numerous machine learning techniques to label the CIFAR10 dataset. Stanford's CS231n CNN course.

### **Sentient CNC – An IoT Device for A.I Supervision of CNC Manufacturing Machines**

An IoT device prototype that would stream sensor data to a machine learning model for autonomous machine supervision.

### **Machine Learning – Andrew Ng's Coursera Course**

Andrew Ng's first machine learning course. Covers linear regression, logistic classifiers, SVMs and neural networks.