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| Sam Bruno |

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# EDUCATION

## Continuing Ed | May 2013 - Present | edX, Udemy, Coursera

* Data Science, Ruby on Rails, Databases, JavaScript, Web Data, HTML, CSS, ReactJS

## B.S. in Electrical Engineering | May 2013 | University of Massachusetts-Lowell

* Circuit Theory, C Programming, Python, Logic Design, Microprocessors, Signals & Systems, Linear Feedback, Analog Devices

## B.S. in Geology | May 2008 | William & Mary

* GIS, Matlab, Hydrology, Surface Processes, Paleontology, Earth Structure, Mineralogy, Petrology

# WORK EXPERIENCE

## Test Engineer | Osram Sylvania | September 2013 to Present

* Environmental testing on automotive lighting products using synchronous Labview and chamber programs
* Data analysis:
* Created a flexible test analysis program in Python to analyze current data at different test conditions
* Python scripting (pandas, numpy, scipy, matplotlib, plotly)
* Additional data analysis in Excel/Minitab
* Assembly of electrical test stations
* Thermal imaging of LED boards and control modules during product development
* Technical test report writing and editing

## Engineering Intern | Exelis Harris | January 2012 to October 2012

* Tested and analyzed radar systems using oscilloscopes, spectrum analyzers, and power supplies
* Soldered through-hole and SMD components for prototype PCB builds
* Studied circuit designs and blocks such as frequency synthesizers and phase-locked loops

# SKILLS & ABILITIES

**Data Science / Scripting:** Python, Ruby, Matlab, ExcelVBA, Minitab

**Web Development:** Ruby on Rails, Javascript, CSS, HTML, Git

**Office:** Microsoft Suite (Word Powerpoint, Excel, Projects, etc.)

**Actively Learning:** ReactJS

# PORTFOLIO

Please visit my website for a look at a few of my professional and personal projects: [sambruno.me/#portfolio](http://www.sambruno.me/#portfolio)