

Sam Bruno

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EDUCATION

MOOCs | May 2013 - Present | edX, Udemy, Coursera

- Python, Algorithms, Data Science, Ruby on Rails, JavaScript, Databases, HTML, CSS, React

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

- C, Python, Logic Design, Microprocessors, Signals & Systems, Linear Feedback

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

- Matlab, Statistics, GIS, Hydrology, Surface Processes, Mineralogy

WORK EXPERIENCE

Test Engineer | Osram Sylvania | September 2013 to Present

- Conduct environmental validation testing on complex automotive lighting products. Develop Labview software sub VIs to control test voltage switching and functional cycling.
- Developed software to automate analysis of lighting test data. Software can analyze distribution of currents in different light mode/temperature/voltage conditions, highlight out of spec data, build various plots, and create summary tables among other tools. Developed with Python (pandas, matplotlib, numpy, lxml), Javascript, and CSS.
- Developed software to automate analysis of chamber and product temperature profile data. Software compares measured ramp rates and soak times to automotive industry test specifications.
- Thermal imaging and analysis of control module and LED boards for product development
- Collaboration with design engineers in conducting failure analysis
- Technical test reports

Engineering Intern | Exelis Harris | January 2012 to October 2012

- Tested and analyzed radar systems using test software, oscilloscopes, and spectrum analyzers
- Contributed to prototype builds

Hydrologic Technician | US Forest Service | May 2009 to September 2010

- Maintained and monitored soil content sensing devices throughout multiple watersheds in Southern California as part of a decades-long study on forest burning and thinning methods
- Conducted data analysis using Matlab

SKILLS & ABILITIES

Programming: Python, Ruby, C, PostgreSQL, Matlab, Excel/VBA

Web Development: Javascript, React, Rails, CSS, Sass, HTML, Git, Webpack

PORTFOLIO

sambruno.me/#portfolio