Mark Opfell

Software Exposure & Skills

Programming Language	Python
Python Packages	NumPy, SciPy, Matplotlib, Json, Requests
Tools	Pycharm, Vi, Bash, Git, GitHub, Excel (Wizard)
RF Standards	FCC, ITU
Life	Mountaineering, Portfolio Management

Work Experience

Job Title **Systems Engineer**
Employer **Kymeta** Redmond, WA
Period **February 2018 – Present**

Developed and executed combined OSI application, transport, network, and physical layer level test cases for a multi-terminal Ku-band ground station based on software defined electronically scanned antennas.
Took on RF Systems project management duties helping guide and educate team members towards a unified view of processes, languages, and tools.

Job Title **Systems Software Engineer**
Employer **Space Systems/Loral** Mountain View, CA
Period **October 2016 – January 2018**

Award wining role of leading, developing, and managing a production Python client and services to exchange data between a PostgreSQL database storing 17 years of antenna data and an RF downlink capacity tool.

Job Title **Senior Systems Engineer**
Employer **Space Systems/Loral** Mountain View, CA
Period **March 2015 – October 2016**

Wrote specifications, triaged vendors, reviewed test data collateral, and directed the installation, unit level and system level tests of the following passive and active RF units: diplexer, waveguide, directional coupler, band pass filter, low noise amplifier (LNA), downconverting mixer, high power load, circulator, coaxial cable, master reference oscillator, and synthesizer.

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Job Title	**Systems Engineer**	
Employer	**Space Systems/Loral**	Mountain View, CA
Period	**June 2012 – March 2015**	

Developed Python analysis tool to model complex amplitude and time delay of 10,000+ passive and active electronic units for a ground-based beamforming network.
Awarded by the CEO for saving $0.25 Million and 3 weeks of production schedule with Python tool simulations.

Education

Degree	**Bachelor of Science in Electrical Engineering**
University	**University of California, Davis**
Period	**June 2009 – June 2012**

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