# Mark Opfell

## Software Exposure & Skills

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|---|---|
| **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 **RF 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 **Software Engineer RF Systems**
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 RF 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 | **RF 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.


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|---|---|---|
| Job Title | **RF 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

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


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