

MARK OPFELL

EXPOSURE & SKILLS

Programming Languages	Python
Python Packages	NumPy, SciPy, Matplotlib, Json, Requests
Tools	Pycharm, Vi, Bash, Git, GitHub Jupyter, Docker
APIs & Standards	FCC, ITU, REST, JSON,
Databases	PostgreSQL, MongoDB
Life	Financial Independence, Backcountry skiing

WORK EXPERIENCE

JOB TITLE	Systems Engineer	
EMPLOYER	Kymeta	Redmond, WA
PERIOD	February 2018 – Present	
RF systems designer developing on a network of mobile software defined phased array antennas connecting users to the Internet over satellite. Kymeta is a Series D startup funded by Bill Gates.		
JOB TITLE	Systems Software Engineer	
EMPLOYER	Space Systems/Loral	Mountain View, CA
PERIOD	October 2016 – January 2018	
Award winning 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	
Developed Python analysis tool to model complex amplitude and time delay of 10,000+ passive and active electronic units for a ground-based beam-forming network. Awarded by the CEO for saving \$0.25 Million and 3 weeks of production schedule with Python tool simulations.		
JOB TITLE	Systems Engineer	
EMPLOYER	Space Systems/Loral	Mountain View, CA
PERIOD	June 2012 – March 2015	
Automated calculations for the world's highest capacity satellite's gateway downlinks at 32,000 Watts of transmit power. Developed and maintained budgets analyzing RF channel performance over 80 unique countries during 1.5 year satellite design cycle.		

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EDUCATION

DEGREE	Bachelor of Science in Electrical Engineering
UNIVERSITY	University of California, Davis
PERIOD	June 2009 – June 2012

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