

# Charles Dunn

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## Work and Research Experience

**Associate Technical Staff**, MIT Lincoln Laboratory, Airborne Radar Group, ISR & Tactical Systems Division — 2012-present

Developed and implemented algorithms for many radar projects including a target classifier, a signal processing testbed, and a data simulator. Quickly leveraged open source code and developed a ray-tracing visible light simulation for a vulnerability study. Solved for the PDF of a highly non-linear combination of noise distributions. Conducted large data set testing and analysis that led to novel algorithms and a new understanding of a high priority problem. Leveraged feature distribution divergence to accelerate feature selection and performance analysis of machine learning classification.

**Signal Processing Summer Intern**, Johns Hopkins University Applied Physics Laboratory, Global Engagement Department — 2011

Collected and post-processed I/Q data. Generated Coarse/Acquisition GPS code in Simulink for precision hardware debugging.

**Hardware Design Summer Intern**, Johns Hopkins University Applied Physics Laboratory, Global Engagement Department — 2010

Designed and printed circuit boards for GPS detection. Conducted a satellite signal integrity study and presented results to colleagues.

**Satellite Design Engineer**, Stanford University Electrical Engineering, VLF Group — 2010

**Radiation Protection Summer Intern**, Hitachi Japan, Nuclear Plant Design Department — 2009

**Ground Station Design Summer Researcher**, Stanford University Electrical Engineering, VLF Group — 2008

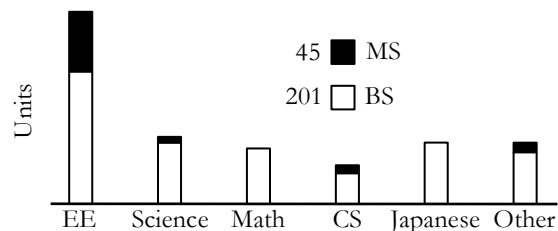
## Education

**Stanford University** MS in Electrical Engineering 2012 – Communication Systems Concentration

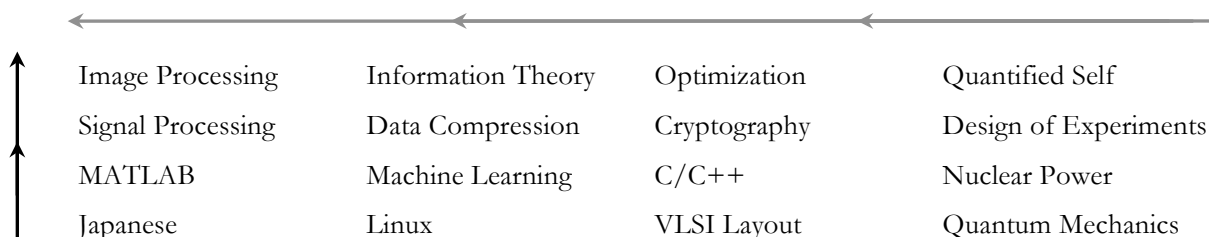
**Stanford University** BS in Electrical Engineering 2011 – Circuits and Devices Concentration

**Massachusetts Institute of Technology** Advanced Study Program 2015 – 6.437 Inference and Information

4.00/4.00	800/800
Graduate GPA	GRE Quantitative
3.80/4.00	35/36
Undergraduate GPA	ACT Composite



## Interest (↑) and Experience (↔)



## Personal Interests

