Charles Dunn

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Education

**Stanford University** Coterminal MS in Electrical Engineering – Communication Systems Concentration, Class of 2012  
**Stanford University** BS in Electrical Engineering – Circuits and Devices Concentration, Class of 2011

800/800

GRE Quantitative

4.00/4.00

Graduate GPA

3.80/4.00

Undergraduate GPA

35/36

ACT Composite

MS (to date)

201

EE

Science

Math

CS

Japanese

Other

Units

BS

35

Work and Research Experience

**Associate Technical Staff**, MIT Lincoln Laboratory, Airborne RADAR Group 105 — 2012-present

Leveraged feature PDF divergence to accelerate feature selection and performance analysis for machine learning classification.

Developed and implemented algorithms for  **Signal Processing Summer Intern**, Johns Hopkins University Applied Physics Laboratory, Global Engagement Department — 2011

Conducted field tests for multiple projects across sections, used MATLAB to post-process collected data and suggest new tests,

generated C/A GPS code in Simulink intended for precision hardware debugging, collaborated with RF engineer to batch process

hundreds of GB of I/Q data for simulated replay of signals.   
**Hardware Design Summer Intern**, Johns Hopkins University Applied Physics Laboratory, Global Engagement Department — 2010  
 Individually designed and printed circuit boards for advanced GPS detection hardware, taught coworkers how to used EAGLE and

LPKF printer, used MATLAB to conduct rigorous satellite signal integrity study and presented to colleagues.

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

Conducted thermal analysis of Cubesat including experimentation and simulation, reported on suggested TEC implementation.

**Research Experience For Undergraduates Summer Researcher**, Stanford University Electrical Engineering, VLF Group — 2008

Created development plan after examining hardware and interface options for LEO Cubesat ground station tracking, learned

soldering and constructed H-bridge, implemented computer driven PID-feedback PWM motor controller after introduction to C

and Atmel microprocessor.

**Radiation Protection Summer Intern**, Hitachi Works, Nuclear Power Plant Division — Hitachi-shi, Ibaraki-ken, Japan — 2009  
 Constructed Monte Carlo particle simulations to recommend radiation therapy center layout.

Active DoD Security Clearance

Awards

Tau Beta Pi Engineering Honor Society Historian  National AP Scholar  AP Scholar with Distinction  US National Physics Team Semifinalist (200 nationwide)  Rolling Meadows High School Physical Science Senior Medallion  Dean of Students Outstanding Achievement Award for Down With Gravity Juggling Club (Club President 2009-2011)  SPARK Arts Grant Recipient

Personal Interests

Internet published 50 word stories

2

IM indoor  
soccer   
title

1

Coffees consumed   
per day

0

Minute  
52 second  
PR mile

4

Years  
lived in  
Rome

3

Months   
lived in   
Japan

5

Raymond Chandler novels read

6

Ball cascade

juggling  
pattern

7

KZSU indie  
music radio  
shows DJed

9

States

camped or

canoed in

8

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