

Charles Dunn

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Education

Stanford University Coterminal MS in Electrical Engineering – Signal Processing Concentration, Class of 2012

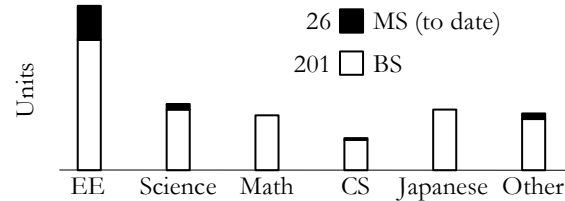
Stanford University BS in Electrical Engineering – Circuits and Devices Concentration, Class of 2011

4.23/4.00
Graduate GPA

800/800
GRE Quantitative

3.80/4.00
Undergraduate GPA

35/36
ACT Composite



Work and Research Experience

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 use EAGLE and LDKF 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.

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

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Coffees consumed per day		IM indoor soccer title		Internet published 50 word stories		Years lived in Rome		Minute 52 second PR mile		Months lived in Japan		Raymond Chandler novels read		Ball cascade juggling pattern		States camped or canoed in		KZSU indie music radio shows DJed