

# Adam Bloom

Houston, TX

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<http://www.adambloom.me>

## EXPERIENCE

### ViaSat, Inc.

Engineer

Denver, CO

January 2016 (Future)

- Projects related to Exede network, ViaSat-2 ground network, and other TBD

### Communication Systems Engineering Intern

Summer 2014

- Developed carrier power monitoring system for the physical layer of the Exede satellite internet network. The system has been integrated into existing networking monitoring and reporting tools, allowing for automated data collection, historical trending, and automated alerts to prevent outages for 685,000 subscribers.
- Researched method to use diagnostic data to measure the frequency response of the satellite channel, eventually replacing an existing hardware system. As of January 2015, the system is being tested on the production network with promising results.

### Electrical and Computer Engineering Department, Rice University

Houston, TX

Introduction to Computer Engineering Course Assistant

January 2013 — May 2015

- Incorporated TI MSP430 microcontrollers deeper into the curriculum with the goal of having each student purchase a LaunchPad in lieu of a textbook, which could lead to personal projects after completion of the course
- Coached twenty students in digital logic, state machines, assembly and C programming
- Assisted students with two larger projects: an FPGA calculator (using Quartus) and an ISA simulator (in CCS)

Fundamentals of Electrical Engineering Course Assistant

Fall 2013

- Guided a group of five students through the successful completion of their problem sets by teaching introductory system theory, circuit theory, Fourier analysis, and information theory

### McMurtry College, Rice University

Houston, TX

Student Maintenance Representative

August 2014 — May 2015

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Faculty Master Search Committee Chair

September 2014 — December 2014

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Internal Vice President

February 2013 — February 2014

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### Camp Nebagamom for Boys

Senior Cabin Counselor

Lake Nebagamom, WI

Summers 2010 — 2013, 2015

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## EDUCATION

### Rice University

Master of Electrical Engineering

Houston, TX

Bachelor of Science in Electrical Engineering, *Cum Laude*

Expected December 2015

May 2015

## HONORS AND AWARDS

### Awards

Burt and Deedee McMurtry Award for service to McMurtry College	2015
Rice Engineering Alumni Distinguished Leadership Excellence Award	2015
Bill Wilson Prize for Best Electrical and Computer Engineering Design	2015
Chevron Scholarship	2014
Barbara Long Chilton Memorial Award for Science and Engineering majors involved in theater	2012

### Honor Societies

Tau Beta Pi, Inducted Texas Gamma chapter	2014
IEEE-HKN, Inducted Theta Rho chapter	2014