

Hunter Scott

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- EDUCATION** **Georgia Institute of Technology**, Atlanta, GA
Bachelor of Science in Computer Engineering Dec 2013
- EXPERIENCE** **Dir. of Hardware Engineering at Reach**, Oakland, CA Nov 2016 - present
Leading hardware strategy. Designing, fabricating, and maintaining majority of hardware. Implementing high frequency phased array systems.
- Electrical Engineer at Bodyport**, San Francisco, CA Nov 2015 - Oct 2016
Employee number 1. Worked with a team to design and implement the first device to measure blood pressure through the feet via a bathroom scale. Also designed and implemented systems for data collection towards FDA approval.
- Co-founder at Ohm**, Milpitas, CA June 2015 - Oct 2015
Designed, built, and sold hybrid supercapacitor batteries for engine starting applications. Sold \$60k of product in 30 days. Y Combinator S15.
- Electrical Engineer at Motorola Solutions**, Schaumburg, IL Feb 2014 - June 2015
Developed proof-of-concept and low volume advanced communication products for government and industry customers.
- Co-founder at Level RF**, Sunnyvale, CA May 2012 - May 2013
Started a company to develop a cognitive network for spectral whitespace. Led radio hardware and firmware development. Personally sold and deployed our first network. Y Combinator S12.
- Robocup Electronics Lead at RoboJackets**, Georgia Tech 2011 - 2014
Developed fully custom electronics stack for an autonomous robotic soccer team. Worked with mechanical and software teams to integrate design. Performed extensive testing and multiple full system iterations. Competed all over the world.
- RESEARCH** **Space-based robotic arm development**, Schaumburg, IL Aug 2014 - June 2015
Developed a 3D printed three foot long 6 DoF robotic arm to be used for pick and place tasks on the ground and on the International Space Station. Contract work for Swift Engineering.
- DEFCON 24**, Las Vegas, NV Aug 2016
Presented my work on hacking Twitter to win hundreds of contests.
- DEFCON 21**, Las Vegas, NV Aug 2013
Presented my work on "Hacking Wireless Networks of the Future: Security in Cognitive Radio Networks"
- NASA USLI**, Georgia Tech Aug 2010 - May 2011
Built a 6 foot rocket to fly a payload up 1 mile for NASA's USLI competition, finished 4th in the nation. Developed rocket avionics as well as electronics for magnetically levitated payload platform
- eStadium**, Georgia Tech Jan 2013 - Dec 2013
Developed a wireless mesh sensor network in the Georgia Tech football stadium. Deployed web apps to deliver collected game and venue information to fans in the stadium
- Grants**
Awarded \$500 grant for winning embedded systems division of VIP research competition 4/21/11
Awarded \$1000 grant for development of open source hardware flight computer 12/13/11
Awarded \$100,000 Phase I NASA SBIR grant for robotic arm development through Swift Engineering 5/01/15

SKILLS

Software

Eagle CAD, Altium Designer, Cadence Virtuoso, LTSpice, Quartus II, Vivado, MultiSim, SPICE, ROS, git

Programming

C, VHDL, some Verilog, MIPS Assembly, MATLAB/Octave, HTML, PHP, Javascript, Python

Hardware

Soldering (through hole, surface mount, and hot air)

PCB design, layout & routing, etching, testing & debugging

Altera and Xilinx FPGAs, NIOS II Processor, 5 stage pipelined MIPS datapath, VLSI architecture

Atmel ATmega microcontrollers, PIC, MSP430, Arduino, Beagleboard, Raspberry Pi

Amateur radio license, class "Extra". IEC 60601-1 standard.

Instrumentation

Oscilloscope, Multimeter, Logic Analyzer, Function Generator, VNA, Spectrum Analyzer

Tools

3D Printer, Laser Cutter, Lathe, Mill, hand tools.

ACTIVITIES

Side Projects

Designed, built, and documented dozens of independent projects, including EEG based music composition, an aircraft early warning radar jammer demonstration, and avionics design and implementation for a UAV. Projects have been collectively viewed over 2 million times and featured in publications like NPR, The Guardian, CNN, and The Chicago Tribune. <http://hscott.net>

Leadership

Electronics lead on Battlebots team

Fall 2008 - Fall 2010

Project manager for Senior Design