Sean W. Keenan

CONTACT INFORMATION
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OBJECTIVE

Build awesome stuff.

EDUCATION

The California Institute of Technology, Pasadena, CA, USA

GPA of 3.5 as of Fall 2012 (In-major: 4.0)

Pursuing B.S. in Electrical Engineering, expected June 2014

LANGUAGES

Assembly, Java, C/C++, Python, Javascript, Labview, VHDL, Bash scripting

SKILLS

Embedded Systems, FPGA Design, Android, Web Development

EXPERIENCE

Google Internship in Google Research June to August of 2012

- Made an Android app, Node.js/socket.io server, Kinect interface, and Webapp

UPenn Research Assistant June to August of 2009, 2010

- Labview/scripting to automate measurements and format data
- Work was on electronics for large scale scientific projects: ATLAS(LHC), LSST

Lloyd House (Caltech dorm) 2010 - present

- Head ITS rep - Caltech-hired student providing technology services in the house
- UCC - Upperclass Counselor, responsible for mentoring and guiding students

Caltech Chapter IEEE Executive Board 2011 - present

Android Development Program at Google Summer of 2011

PROJECTS

SoPC Oscilloscope

- 5 MHz digital oscilloscope, runs on an Cyclone III Altera FPGA
- Designed, programed, SMT soldered, wire wrapped, and documented by myself
- Designed, laid out, and self-etched capacitive touch keypad

Robotrike holonomic motion robot

- Runs on an 80188 processor, where the serial interface, motor controller, display, and keypad interface all were all coded entirely in assembly

Dorm Automation Project

- Fully custom personal project to automate dorm room
- Remotely controlled hardware connects over websockets to a Node.js server, running MongoDB and Socket.io which hosts a responsively designed HTML5 webapp

www.Pixelboard.in

- Hackathon project using Android, Node.js, Socket.io, HTML5, and NFC

INTERESTS

Projects (anything electrical, mechanical, or programming based)
Science Olympiad, Smartphones, Construction, Physics (Mechanics and E&M)

WEBSITE

Other projects and more information at www.skeenan.com