

Sam Christy

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I am a student at Iowa State University pursuing a degree in Electrical Engineering and a minor in Computer Science. I have experience designing, building, and testing electrical systems as well as extensive experience programming, especially in a Linux environment. I also have experience working on high pressure and challenging projects such as my senior design project, and my final project for integrated circuit design. I am currently seeking an internship for the spring semester, or a job for after I graduate in the spring of 2018.

EDUCATION

Currently a Senior at Iowa State University
Majoring in Electrical Engineering with a Minor in Computer Science
Award for Competitive Excellence scholarship
Member of the Iowa State Chapter of the National Society of Collegiate Scholars

PROJECTS

SI Attendance Management Senior Design Project [may1709.sd.ece.iastate.edu]
Lightweight Linux Desktop Environment
Binary star orbit simulator for the physics department at Iowa State
Device drivers for a secondhand Sony EVI-D70 video camera
4B5B digital encoder/decoder integrated circuit design via Cadence CAD software
PIC based LCD driver
Atmega based dotmatrix LED display
Assembly to machine language interpreter
3d rendering software in Python (without OpenGL and hardware acceleration) and later in C++ (With OpenGL)
OpenGL, DirectX and Graphics Device (GDI) programming
GIF file binary editor
Several Android apps including a logic gate simulator and scrabble board game

SKILLS

Linux (especially Debian and it's derivatives)
Computer security (PfSense, Ubuntu Server, FreeBSD)
Embedded device programming (Microcontroller/FPGA/Raspberry Pi)
Familiar with CAD/SPICE software
Experience with more than 15 programming languages Esp. (C++/C, Python, Haskell)
Android programming
Soldering/Wave Soldering
LaTeX typesetting language

COMPETITIONS

2nd out of 44 teams in the 2017 Senior Design Projects
2nd place National Cyber Defense Competition-Spring 2016
1st place Iowa State Cyber Defense Competition-Spring 2015

WORK EXPERIENCE

Data Entry for the Iowa State Dept. of Education April-August 2016
Line Cook for Pepperjax Bar and Grill April-August 2015
Lowe's Commercial Loader May-August 2014
Volunteer at Methodist Hospital in Omaha 2012-2013
Corn Detasseling for Pioneer during the summer seasons of 2009 and 2010