

Samuel Christy

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I wish to obtain a job in a challenging professional environment in which I can utilize my education and skills for a position that will allow me to further expand my knowledge in my field of study.

EDUCATION

- Iowa State University, Ames IA - *Bachelor of Science in Electrical Engineering* Expected Graduation December 2017
- Award for Competitive Excellence scholarship
- Member of the Iowa State Chapter of the National Society of Collegiate Scholars

PROJECTS

- SI Attendance Senior Design Project [<https://www.may1709.sd.ece.iastate.edu>] August 2016-May 2017
- Binary star orbit simulator for the physics department at Iowa State September 2016
- 4B5B digital encoder/decoder integrated circuit design via Cadence CAD software May 2016
- Assembly to machine language interpreter February 2014
- 3D renderer with OpenGL July 2014
- ATmega based dotmatrix LED display September 2013

COMPETITIONS

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

WORK EXPERIENCE

- Project Maintainer for SI Attendance Management August 2017-present
 - Investigate and resolve issues in the Laravel project
 - Coordinate with team members to identify potential issues
 - Collaborate with SI leaders to identify potential additions to the project
- Data Entry for the Iowa State Dept. of Education April 2016-August 2016
 - Evaluate teacher grading accuracy and monitor for score discrepancies
 - Organize prior years' data and make it available for department analysis
 - Enter teacher-graded exam scores into spreadsheets
- Line Cook for Pepperjax Bar and Grill April 2015-August 2015
 - Prepare all food items in fast-paced restaurant environment including lunch and dinner services
 - Follow standardized recipes to assure highest quality of food served
 - Store food items and maintain the highest levels of sanitation and cleanliness
- Lowe's Commercial Loader May 2014-August 2014
 - Organize and position items, including lumber, drywall, and concrete
 - Work with team and management to recognize, prevent, and handle potential security risks and thefts
 - Aid customers in designing and implementing personal projects

SKILLS

- Linux (especially Debian and its derivatives)
- Github and other version control systems
- Computer security (PfSense, Ubuntu Server, FreeBSD)
- Embedded device programming (Microcontroller/FPGA/Raspberry Pi)
- CAD/SPICE software
- Experience with more than 15 programming languages Esp. (C++/C, Python, Haskell)
- Android programming
- Soldering
- LaTeX typesetting language
- OpenGL, DirectX and Graphics Device (GDI) programming

Device drivers for a secondhand Sony EVI-D70 video camera
PIC based LCD driver
GIF file binary editor
Several Android apps including a logic gate simulator and scrabble board game

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- Volunteer at Methodist Hospital in Omaha January 2012-May 2013
- Corn Detasseling for Pioneer Summer 2009-2010

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 will be seeking full time employment starting in January of 2018.