

Austin Jones

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Objective: Computer Engineering Senior looking for a summer internship May 2021 or full time position for Jan 2022. Interested in working with Embedded Systems, IoT, Networking.

Education

University of Tennessee Knoxville

Bachelor of Science in COMPUTER ENGINEERING

Anticipated Graduation: Dec 2021

GPA: 4.0/4.0

Work Experience

Current
JAN 2019

Siemens Molecular Imaging - Knoxville

Electrical R&D Intern

Conduct work on projects, both solo and team, to provide value to the ER&D team:

- Presented findings from work to a large technical audience to demonstrate the validity of a new system architecture.
- Lead long term projects:
 - Utilize a Xilinx MPSoC to test limitations of ARM Core processing vs an FPGA implementation to assess cost reductions.
 - Use many Raspberry Pis with off the shelf networking hardware to conduct data path tests and compare the bandwidth with current custom solutions.
 - Work with a team of Engineers, collaborating with GitLab to write various driver code for a custom Linux image.
 - Create a functional test to insure proprietary hardware functioned to spec.
 - Collaborate with fellow intern to make a suite of software tools to monitor systems for various needs and engineers.
- Update and Maintain Engineering Documentation for various projects.
- Assist Engineers with general tasks (e.g. wiring, testing, Python scripts to process files)

Skills

Working Knowledge: Xilinx FPGAs, Petalinux, Intel FPGAs, .NET, POSIX

Serious Languages: C++, C, C#, Python, Shell, VHDL, L^AT_EX

Recreational Languages: Rust, Haskell, Groff, BF

Office Skills: Excel, GIMP, Visio

Academic Experience

Current
AUG 2019

Engineering Professional Practice Office - University of Tennessee

Student Ambassador

Work with students to improve resumes, interview/inter-person skills, overall professional skill to increase the number of internships and coops attained by the students at UT.

APR 2019

Proof of Concept Password Manager - University of Tennessee

COSC 302 Project

Collaborated with a group of peers, using Github, to create a functional Chrome extension that manages a user's passwords for multiple sites. Parsed web pages to find password and username fields and stored users encrypted data in the cloud. The data was encrypted with the RC4 symmetric stream based encryption algorithm.

Scholarships and Honors

AUG 2019 - *Current* S. T. Harris Scholarship

AUG 2019 - *Current* Herschel C. and Louise Runnion Brand Engineering Scholarship

MAY 2019 Gonzalez Family Awards for Outstanding Computer Engineering Junior

Interests and Hobbies

- Raspberry Pi, Arduino, Self-Hosting, IoT Projects
- VolHacks, Mechanical Keyboards, Basic Electrical projects
- Rock Climbing, Cooking, Digital Art