

Austin Jones

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

Education

University of Tennessee Knoxville

Anticipated Graduation: Dec 2021

Bachelor of Science in COMPUTER ENGINEERING

GPA: 4.0/4.0

Current
AUG 2019 | **Engineering Professional Practice Office** - University of Tennessee
Student Ambassador

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

APR 2019 | **Password Manager Browser Extension** - University of Tennessee
Data Structures and Algorithms 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/username fields and stored users data in cloud.
- The data was encrypted with the RC4 symmetric stream based encryption algorithm.

Work Experience

Current
JAN 2019 | **Siemens Molecular Imaging** - Knoxville
Electrical R&D Intern

Conduct work on projects, both individually and collaboratively, 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.
 - Used multiple 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 using GitLab to write various driver code for a custom Linux image.
 - Created a functional test to insure proprietary hardware functioned to spec.
 - Collaborated 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
Professional Languages: C++, C, C#, Python, Shell, VHDL
Recreational Languages: Rust, Haskell, BF, Groff
Office Skills: Excel, GIMP, Visio, L^AT_EX

Scholarships and Honors

MAY 2019 | Gonzalez Family Awards for Outstanding Computer Engineering Junior
AUG 2019 - *Current* | S. T. Harris Scholarship
AUG 2019 - *Current* | Herschel C. and Louise Runnion Brand Engineering Scholarship

Interests and Hobbies

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