Connor Troy

connor.troy@tuta.io • 805-503-9278 • github.com/ConnorTroy

SKILLS

- **Programming Languages** - Rust, C, Python, C++, Bash, MATLAB, Java
- **Software/Tools** - Git, Linux, Perforce, SQLite, AWS(S3, EC2), Docker

EXPERIENCE

Seagate Technology - Longmont, CO   Jul 2019 - Present
Firmware Test Development Engineer

- Adopted lead development of HDD logging subsystems
- Facilitated development by writing libraries to issue common complex diagnostic processes enabling developers to produce more modular, maintainable code
- Executed conversion to a common test platform by rewriting tests or updating when feasible, improving allocation of developer resources and allowing for identical testing methodologies between drive interfaces
- Mentored two new employees, produced new-hire documents, and lead training sessions enabling new-hires to quickly engage in complex projects
- Restructured libraries and tests and automated test coverage, simplifying regular test updates and reducing time before firmware changes can be validated
- Collaborated with firmware developers and customer representatives to draft test plans recognized and agreed to provide suitable coverage
- Formalized new documentation process to rectify and prevent coverage and documentation issues

Western Digital - San Jose, CA   May 2018 - Dec 2018
Firmware Engineering Intern

- Spearheaded development of 's3io,' tool used to test S3 storage, delivering concrete performance statistics
- Explored areas of feasible performance improvement by modifying and rewriting core firmware modules
- Coordinated with team to develop and run various tests providing a benchmark for firmware performance
- Diagnosed and documented issues experienced regularly while installing and setting up prototype boards

PROJECTS

SmartCast API   Jun 2021 - Present
crates.io/crates/smartcast

- Rust library available on crates.io
- Provides an asynchronous client for connecting to and controlling Vizio smart TVs and soundbars

SolarDeg - CU Senior Design Project   Aug 2018 - May 2019
Firmware/Software Lead

- Machine designed to support researchers in photovoltaic industry measures degradation of solar cells throughout long periods of exposure to high intensity light
- Wrote drivers to interface with components; software to monitor from a connected computer

EDUCATION

University of Colorado Boulder   Graduated May 2019

- Bachelor of Science - Electrical and Computer Engineering