Zachary Hannum

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Work Experience

Plexus, Corp.

Software Engineer II   *Oct 2019 - Present*

- Served as subject matter expert, mentor, and technical lead for GUI sub team using Qt/QML
- Created detailed on-boarding and training plans for new members of project team
- Led group and 1-on-1 training sessions with project members to increase team velocity and improve effeciency
- Engaged with external customers to quote projects, provide project status updates, and drive product development
- Drove the use of MkDocs as a company-wide tool for technical documentation on projects

Software Engineer I   *Jan 2018 - Oct 2019*

- Developed and tested GUI features for a medical device on QNX using Qt/QML to customer specifications
- Attended ICS training on Qt for Embedded devices
- Designed, implemented, and reviewed software features for a medical device following a test-driven development paradigm using modern C++ and GoogleTest
- Created scripts in Python for managing development environment to improve team efficiency
- Collaborated with software team, project managers, and external customers in an Agile/Scrum environment
- Ported test application to new system to support functional test team in manufacturing
- Fixed critical software bugs to support software verification for software safety Class C medical device
- Authored verification procedures and supervised software verification for software safety Class B medical device to confirm product met product and software specifications

Kast Clothing   *Aug 2016 - Dec 2017*

Co-Founder

- Co-founded Kast Clothing, using technology to provide better fitting clothes online
- Created custom patterns and tested fit with real-time physics simulations
- Entered Lulu eGames, taking 1st place in the fan favorite Built on Cloud video, winning $500

Best in the Verse Audio   *May 2014 - Dec 2017*

Founder

- Created hand-crafted custom cables for audiophile headphones

Technologies, Languages, & Interests

Languages

- C++, C, Javascript, QML, Python, Bash, HTML, CSS, Java

Technologies and Frameworks

- Git, Qt, Linux, CMake, QNX, DDS, Boost, GoogleTest, Bamboo CI (Java-based configuration-as-code), Enterprise Architect

Interests

- GIS/Cartography, writing, art, photography, procedural generation, 3D printing, 3D modeling, virtual reality

Projects

MkDocs Autolinks Plugin | See project on GitHub   *2020-Present*

Open-source plugin for MkDocs, a project documentation tool, for generating links between pages

- Written in Python to interface with MkDocs plugin API
- Used by 40+ GitHub projects

Audiobooks | See project on GitHub   *2017*

Open-source Android application for audiobook listening

- Built with persistence, list/grid views, and a sliding UI player
- Implemented services, adapters, custom ArrayLists, SQLite Databases, and JSON Queries

Education

North Carolina State University   *May 2017*

Bachelor of Science, Computer Engineering
Bachelor of Science, Electrical Engineering
GPA 3.6