ERIC LAGNESE

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WORK EXPERIENCE

Software Engineer

June (2019) - Present

AASKI Technology aq. by MAG Aerospace

Operated in a small team that produced software applications for soldier use in the field. Main area of focus was on frontend development. Additionally consolidated and fulfilled requirements provided by the customer. Debugged networks, linux services, and android applications.

Intern Summer (2018)

AASKI Technology

Completed Full-Stack development of User Interface using Golang, HTML, and Vue.js. Implemented solutions for a dynamic User Interface and dynamic data-binding. Assisted implementation of server and databases on embedded devices.

Research Volunteer

October (2016) - May (2017)

WVU School of Medicine

Contributed in Neural Engineering Laboratory to DARPA HAPTIX subcontract (PI: Yakovenko). Responsible for signal processing of kinematics, surface and intramuscular electromyography from healthy and amputee human subjects.

EDUCATION

West Virginia University

(August 2015 - May 2019)

B.S. in Mechanical Engineering Minor in Computer Science GPA: 3.73

Completed Hours: 152

PROJECTS

Mounted Mission Command

(August 2022 - Present)

An Android Open Source Project (AOSP) and Yocto Linux project for Mounted Computing on military vehicles.

Project Management

- Worked as a developer on a team of **16 engineers** to develop a product release for soldiers.
- Organized discussions from the customer to form an actionable report to the developers.

Development

- Developed user applications in C and Java with their BitBake recipes for networking and user interface.
- Completed critical UX feature for customer saving money and potential late delivery.
- Lead development to customize for new deployment target; AOSP build management to support multiple custom lunch targets. Debugged boot, customized networking management and input management.
- Debugging the linux kernel via kgdboe and QEMU.
- Managed AOSP kernel updates
- Created login application that acted as a Device Policy Manager; Performed application hardening from penetration test results.

Precision Fires-Dismounted

(August 2019 - Present)

Precision Fires-Dismounted (PF-D) is an Android App that runs as a plugin to a geospatial awareness Android App.

Project Management

- Consolidated project requirements to support project management.
- Interfaced with the developers assigning and distributing the workload after receiving test reports.
- Assisted with the fielding of this product as well as relaying and finding technical solutions to the customer.

Development

- Developed both **Java and C** for Android working with networking and user interface (UI).
- Implemented user experience (UX) improvements, backend support for network management, performance improvements for UI responsiveness, and worked to remove technical debt.

SKILLS

Languages: Java, C, Python, SQL.

Technologies: PostgreSQL, lxc, QEMU, Docker, Gitlab, Linux, Yocto, IP Networking.

Tools: JetBrains IDE's, neovim, gdb