

## Objective

To work in an internship that allows me to help develop deliverable products, while improving my skills in programming, electrical engineering, and system design. I'm particularly interested in firmware and driver design.

## Education and Awards

Rice University, Electrical Engineering

- Expected Graduation 2021
- 3.81 GPA

Programming Experience

- Proficient in Java, Objective-C, Python, and C
- Familiar with ASL

Tools

- Proficient with Linux command line, Linux administration, and MongoDB
- Familiar with OpenVPN, NAT, and OpenSSL
- Familiar with asymmetric cryptography libraries and standards

Awards

- Eagle Scout (2016)

## Work Experience

Rice Bikes Operations Manager (Fall 2019- Present)

- Handle inventory and ordering logistics for student run bike shop
- Restructuring ordering processes to minimize waiting time for special part orders

Rice Bikes App Lead (Fall 2018 – Fall 2019)

- Lead developer of web app in angular and node.js designed to track transactions
- Manage production server for web application

Dell Technologies (Summer 2019)

- Experience with UEFI Firmware development, including SMM Drivers
- Knowledge of the UEFI boot process and associated security considerations
- Experience with Asymmetric Cryptography standards including RSA-PSS

## Projects

Mac OS "Hackintosh"

- Working to modify ACPI code to support booting Mac OS on a Windows PC
- Experience with injecting additional SSDTs, patching DSDT

iOS Messaging Reverse Engineering (Objective-C, ongoing)

- Designing program to relay iMessage content to remote server
- Capable of receiving messages and starting a daemon to handle server connections

## References

Captain Matt Holmes, Austin Fire Department - [matt@lbjfire.org](mailto:matt@lbjfire.org)

- Participated in 2-year Texas fire certification program under his direction

Bobby McClung - [bmack@awscom.net](mailto:bmack@awscom.net)

- Advanced Wireless Solutions Communications Executive