Jake Eichinger

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Objective

Soon to be college graduate double majoring in Electrical Engineering and Computer Science. Seeking a position in Software Engineering that will allow me to continue to grow, and build upon my existing academic knowledge and internships.

Education

B.S. Electrical Engineering and B.S. Computer Science, Dec. 2017
University of Wisconsin-Madison
Overall GPA: 3.265/4.00 Major GPA: 3.761/4.00
Overall Last Two Semesters: 4.00/4.00

Work Experience

John Deere, *Dubuque, IA* May 2017-Sept 2017
Computer Engineering Intern
• Created a database tool using PostgreSQL that consolidates hundreds of files into one single database.
• Implemented a new software feature following agile development, that allows for automated testing on excavators. Involved developing a SRD, creating a Simulink model, as well as writing the code to implement the feature.
• Developed electrical benches for multiple models that will be used for testing purposes. Involved creating wiring harnesses, as well as designing a setup for the benches and programming the controllers.

John Deere, *Des Moines, IA* May 2016-Sept 2016
Computer Engineering Intern
• Implemented a new feature for one of their latest iOS products following agile development practices. This consisted of designing a mobile architecture, developing functional documentation, as well as actually implementing the new feature in the application.
• Worked directly with the embedded systems and mobile application teams.
• Skills Obtained: iOS programming(swift), Functional Reactive Programming(ReactiveCocoa), embedded systems practices, Sqlite and Realm database manipulation.

Projects

Obstacle Avoiding Robot Summer 2016
• An Obstacle avoiding robot designed and built from scratch. This robot utilizes ultrasonic sensors to traverse its environment freely.
• Developed an iPhone app that allows the user to either control the robot with an on-screen controller, or command the robot to go into its “Obstacle Avoiding Self Drive” mode.

Arduino Quadcopter Drone Summer 2015
• Designed, built, and programmed a drone using multiple Arduinos, wireless transmitters and receivers, a flight controller and an improvised controller from an old RC helicopter.
• Currently working on improving drone for live video feed and GPS navigation.

See website provided at top for older projects.

Activities/Clubs

IEEE September 2015-Present
• Actively involved in tech talks, social events, as well as mini tech workshops.