

Vikas Potluri

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Note: this is a sparse version of my resume. If you'd like to see the full resume, please get in touch!

Education

Texas A&M University - B.S. Electrical Engineering Sr., Cyber Security & Comp. Sci. Minor 8/2016 – 5/2020

Experience

Qualcomm – SoC Design Engineer June 2020 - Present

NXP Semiconductors – Characterization Engineering Intern (DDR) Summer 2019

- Assisted in developing cutting-edge characterization techniques for high-frequency source-synchronous devices
- Created documentation for several key components of the methodology to be consumed by multiple groups

Drone Plant Health Monitor Fall 2019 – Spring 2020

- Built system to autonomously photograph a configurable region, and post-process images to show at-risk crop areas
- Developed the GUI and communication mechanisms between host, microcontroller, and drone flight controller

Gradebook – Chief Engineering Architect Spring 2019 – Present

- Architected a microservice-based platform designed for continuous deployment and manageable scaling
- Designed a REST API focused on security, speed and availability. Production response times are ~15ms

Founder & Developer – HexR April 2013 – Present

- Design, develop, maintain and manage websites for non-profit organizations; actively maintaining multiple sites
- Maintain organizational IT assets – domain, website, security, server maintenance, etc.

Skills & Abilities

Hardware and Software

- Verilog, SystemC (w/ Vista), Virtuoso, MultiSim, C++, Arduino, Git, Shell, JavaScript, SQL, MatLab, Unix, CI/CD

Leadership

- Boy Scouts - served different leadership roles, including Junior Asst. Scoutmaster and Scribe
 - Achieved Eagle Scout (Highest Rank) in 2012
- Acted as Secretary, Logistics Manager, and Webmaster of Westwood Robotics Club, 2014-2016

Design

- Single Cycle Processor – implemented in Verilog, mimicking LEG / ARM architecture, with comprehensive tests
- Core member of local Robotics club for 6 years; played a lead role in designing award-winning robots and solutions

Project Management

- Contribute to several open source projects, developing and releasing projects using agile development practices
- Developed multiple websites and themes for a variety of clients within a provided deadline
- Managed scheduling and validation in Drone Plant Health Monitor and Gradebook to quickly release features