ryanmarion012@gmail.com ▪ 815.303.9022
ryanmarion.github.io

Ryan Marion

Skills (Software)

JavaScript, React.js, Node.js, Perl, SQL, MongoDB, Python, HTML, CSS, C

Experience

Product Engineer, Micron Technology ▪ June 2016 – Present

- Developed automated Python and Perl scripts/software tools to enable efficient and smart testing.
- 3D NAND Flash – Performed pre-silicon design validation and development (Verilog/analog simulation, firmware debug), characterized and tested various circuits on-chip, and analyzed/correlated data during high volume test flow development to identify and screen process defects.
- Managed NAND - project management across signal integrity, design, assembly, Q/A, and controller vendors to enable large scale integration of UFS, eMMC, and uMCP/eMCP systems.
- Competitor Analysis – solved problems communicating with competitor devices, performed benchmark reliability and performance characterization against Micron's products to support marketing as well as innovation on future NAND designs.

Product Engineer Intern, Micron Technology ▪ Summer 2014, Summer 2015

- Designed and built a functioning Perl software tool and GUI for the product engineering team.
- Competitor Analysis – performed experiments on competitor NAND devices to support marketing as well as innovation on future NAND designs.
- Validated and documented new customer features on 3D NAND Flash devices.
- Performed verilog and analog simulations for design validation and debug.

Research Assistant, ISU, Department of EE/CprE ▪ Spring 2015

- Performed research on Perovskite solar cells.
- Characterized new materials through I-V, CV, QE, and CFT measurements.

Education

Iowa State University–Ames, Iowa–B.S. Electrical Engineering (2012-2016)
GPA 3.88/4.0

Projects

Flack – A chat web application clone based on the popular chat app Slack. (link available on ryanmarion.github.io)