Nickolas Lloyd

Software Engineer

Profile

Engineer, maker, hacker. I love working on challenging problems to find robust and efficient solutions.

Contact

3025 Sherrill Ave.
Jamestown, NC 27282

ultrageek.lloyd@gmail.com

+1.336.404.2822

smindinvern.github.io

smindinvern

Interests

— Professional —

- Programming language design
- Embedded systems
- Signal processing
- Measurement science

— Personal —

- Digital electronics
- Open source
- Running
- Video games

Projects

`smindinvern.Parser`
A simple monadic parser library for F#.

`usb-micro`
From-scratch USB libraries for ARM microcontrollers. Includes USBTMC and USBHID implementations.

Education

- Bachelor of Science in Computer Science — December 2017
  University of North Carolina at Greensboro, Greensboro, NC

Experience

- Qorvo (previously RF Micro Devices), Greensboro, NC
  Senior Software Engineer — April 2019 –
- Software Engineer — January 2013 – April 2019
- Software Engineer (contractor) — June 2011 – January 2013

Maintained software for the automated test and characterization of RF devices. Responsible for bug fixes, implementation of new features, planning and implementation of architectural and usability enhancements, automation of CI and CD processes, as well as end-user support.

Gained expertise in the RF semiconductor, wireless communications, and test and measurement domains. Mentored other developers and shared knowledge with engineers and technicians on a daily basis.

Other accomplishments

- Implemented and standardized CI and CD process for .NET projects.
- Migrated legacy VB6 application to VB.NET, allowing team to leverage modern development tools and processes.
- Developed tool for fixture deembedding of balanced multi-port S-parameter data, overcoming limits of test equipment.
- Developed a software solution for offline (software in the loop) validation of test software to allow for fast, robust verification without the need for any physical devices.
- Developed microcontroller firmware and desktop application to control USB-connected product demo board.

Skills

●●●●●	C	●●●●○	C++
●●●●●	VB	●●●●●	C#
●●●●●	F#	●●●○○	Haskell
●●○○○	Java	●●○○○	Scheme
●●●○○	Python		