Morgan Davis

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O V E R V I E W

I'm a software generalist and a multi-platform expert. I'm passionate about Computer Graphics and Realtime Rendering. I pride myself on being thourough, producing high-quality deliverables, and communicating exceptionally well.

E X P E R I E N C E

Principal Software Engineer, Turtle Beach Inc., San Jose, CA — Feb 2020 – Present
Leading software development across products and platforms.

- Leading development of a cross-platform C#/Xamarin project targeting multiple applications for iOS, Android, Windows, and macOS
- Working closely with engineering and product management stakeholders to define requirements and schedules
- Writing code daily

Software Development Consultant, Turtle Beach Inc., San Jose, CA — Jun 2018 - Feb 2020
Providing technical expertise and code contribution for multiple successful product launches.

- Advising as a technical expert
- Writing code in Objective-C for iOS/macOS, C#/C++ for Windows
- Working closely with CTO & Firmware Lead to deliver multiple successful product launches

Senior Software Engineer, Innovation, Plantronics Inc., Santa Cruz, CA — Oct 2016 - Jun 2018
Leading software development for pilot programs and core technology exploration. I acted as a technical hero&ambassador for the company -- performing internal and external technology demos and sponsoring hackathons.

- Working with IoT devices/communicaton protocols/multi-factor authentication/Bluetooth/Ultra wideband
- Writing code in Objective-C/Swift for iOS/macOS, C++ for Linux, and some Python web servers

Software Engineer, Innovation, Plantronics Inc., Santa Cruz, CA — Oct 2012 - Oct 2016
Developing software for a small, multidisciplinary team exploring new ideas and technologies. The Innovation Team did things that were outside the comfort zone of the company as a whole -- we created many conceptual prototypes, developed strategic partner integrations, and created early product iterations. I used a breadth of technologies and programming languages on an almost daily basis.

- Working with IoT devices, communicaton protocols, Bluetooth, sensors
- Writing code in Objective-C/Swift for iOS/macOS, Java for Android

Software Engineer, AOptix Technologies Inc., Campbell, CA — Jul 2011 - Oct 2012
Developing middleware, front-end, and core algorithm porting and optimization for an MFi iris and fingerprint recognition platform. I ported and significantlyoptimized many image processing algorithms from C++/Linux to iOS environment, used CoreImage and OpenCV to provide real-time iris & face finding functionality, and specified & implemented the 30-pin MFi serial communication protocol. I also created and skinned the native iOS app interface, and designed and impelemnted several manufacturing configuration/calibration tools. Mathematics and optical physics were used frequently.

- Working with OpenCV, CoreImage, communicaton protocols
- Writing code in Objective-C/C++ for iOS
- Porting and optimizing image processing algorithms

Founder, MKD Software LLC, Placerville/Santa Cruz, CA — Jun 2001 - Jul 2011
Developing free and shareware applications for the macOS platform. Several of my titles saw widespread popularily, including some achieving several hundred-thousand downloads and thousands of registered users. All operations were performed by myself including: application design and development, web and backend development, sales and marketing, and customer relations and support.

- Objective-C/C/Cocoa/Carbon for macOS
- PHP/JS/MySQL/CSS/HTML

EDUCATION

B.S. Computer Science, 2011 – University of California, Santa Cruz

ENUMERATED SKILLS

• Mathematics and Computer Science theory
• Cross-platform C++ development
• macOS & iOS development with Objective-C and Swift
• C#, .NET, and Xamarin development
• Linux, networking, and infrastructure systems
• Exceptional written and oral communication skills
• Enough Python to be dangerous

EXTRACURRICULAR

• Developing a cross-platform rendering/game engine
• Endless Raspberry Pi projects
• Downloading NOAA weather satellite images in my attic
• A home IT infrastructure that rivals many small businesses
• Tuning and track'n a rotary RX-7
• I'm an Eagle Scout