

Skills

Engineering

- Project management
- Analog and digital circuit design
- Embedded microprocessor development
- 3D mechanical design
- Software development
 - Mobile development on iOS for iPhone/iPad
 - System development on LAMP and macOS
 - Programming in C/C++, Swift
- Database design, validation, and maintenance
- Web design
 - Full-stack plus WordPress, Squarespace, etc.

Quality

- Lean Six Sigma black belt certified
- ISO-compliant procedure creation
- FDA GMP quality management system (QMS) performing CAPA, FMEA, etc.

Training

- Live training; instructional design
- Knowledge base creation
- Technical writing and editing

Business

- Product management
- Product structures and ERP
- Marketing and sales, direct and OEM

Information Technology

- IT management
- Security auditing
- Network design and administration
- Windows, macOS, and Linux administration

Creative

- Photography - fine art and commercial
- Videography - studio and live production
- Photo editing, archival-quality framing
- Video editing
- Audio recording and production
- Voiceovers, voice talent
- Graphics and logo design

Leadership

- Engineering management and mentorship

Capabilities

Engineering Software

- ECAD / Electrical
 - Autodesk Eagle for schematic/PCB layout
- MCAD / Mechanical
 - Alibre Design Expert for 3D, plus 2D drawing
- Rendering / Visualization
 - KeyShot CAD for 3D rendering

Engineering Hardware

- Electronics lab
 - Tektronix digital and analog oscilloscopes
 - Saleae logic analyzer
 - Total Phase protocol analyzer
 - Fluke multimeters
 - HP bench power supplies
- Development boards
- Metalworking - saws, arbor presses, drill presses, wire forming, grinders, etc.
- Woodworking - saws, sanders, nailers, etc.

Software Development

- Computers
 - macOS workstations; Linux servers
 - Windows 10 and legacy, via virtualization
- Mobile devices
 - iOS devices - various models of iPhone, iPad, Apple Watch, Apple TV
 - Registered Apple Developer - macOS, iOS, iPadOS, watchOS, and tvOS

Creative Software

- Adobe Creative Cloud
 - Lightroom, Photoshop, Illustrator
 - Premiere Pro, After Effects for video production
 - Audition for audio production
 - Dreamweaver for web production
 - InDesign, Acrobat for document production
- Apple Final Cut Pro, Apple Motion, and Apple Compressor for video production
- Apple Logic Pro for audio production
- Legacy Support
 - Vegas for video production
 - SONAR for audio production

Creative Hardware

- Multiple DSLR, mirrorless cameras, and lenses
- Professional compact cameras
- Professional video cameras
- Action cameras
- Studio lighting systems
- Video 'green screen' room (chroma keying)
- Multichannel digital audio interfaces

Infrastructure

- Business-class broadband Internet service
- VPN access, client and site-to-site
- Multiple wireless access points
- LAMP stack on several servers
- Virtualization - VirtualBox, Parallels Desktop