

Michael Stumpf

SOFTWARE ENGINEER · EMBEDDED

1309 Eagles Nest In, Monroeville, PA, 15146

☎ 724-882-0177 | ✉ michaelstumpf585@gmail.com | 🌐 www.mws-info.com | 📱 mstumpf585 | 📧 michael-wayne-stumpf

Experience

Philips Respironics

Pittsburgh, PA

SOFTWARE ENGINEER

Aug. 2018 - Present

- [DreamStation 2](#) (coming soon)
 - Identified and remediated bugs on the device writing in C/C++ for a microprocessor running SMX RTOS
 - Developed WPF .NET core application to upgrade the device using STM DFU protocol
- [SmartSleep Headband](#)
 - Collaborated in building Embedded Firmware running FreeRTOS on STM32F4
 - Maintained .NET framework desktop application for interacting with the device
- [Simply Go Family](#)
 - Prototyped various sensors for a new oxygen concentrator device on a STM32F4 development board
 - Implemented valve control algorithms to produce optimal oxygen levels
 - Worked closely with Mechanical and Electrical Engineers throughout the development life cycle
- **SVN to Gitlab Initiative**
 - Mobilized the transition to Git from SVN for 70+ developers and provided training
 - Conducted cost-benefit analysis for platform transformation
 - Coordinated among team members to establish and propose execution plans to management
- **Artifactory Initiative**
 - Identified and communicated the need for artifact management after transition to Git
 - Developed the business case of incorporating Artifactory that supports pip, NuGet, and Conan Packages to CI/CD pipeline which addressed project planning, cost-benefit analysis, and requirements generation
- **Agile/Supervisor roles**
 - Cached various project and Initiative teams as scrum master
 - Supervised and lead a team of 3 Software engineering interns in end to end development of an application using [Avalonia](#)
 - Converted a team of 70+ people in multiple scrum teams following [SAFe](#) practices and was recognized by receiving "Agile Transformation Pioneer" award

IQ Inc

Pittsburgh, PA

SOFTWARE ENGINEER

July 2017 - Aug. 2018

- **Hitachi**
 - Developed automatic train control systems in C/C++
 - Integrated Unit Tests into legacy code system using Google Test and Google Mock frameworks
- **ALung**
 - Performed formal verification testing for products like hemolung

Skills

Programming	C/C++, C#, Python, Rust, Node.JS, LaTeX, Lua, Linux, FreeRTOS
Web	Django with Python, Express with Node.js, Actix with Rust, HTML5, CSS
Desktop	WiX Toolset, WPF, Winforms, Node.js
Build Tools	Conan, CMAKE, GCC, GDB, MSVC, NuGet, pip, Visual Studio, .NET, Docker, Ninja, IAR, VS Code
CI/CD	TeamCity Admin, GitLab, Artifactory Admin
Source Control	Git, SVN
Planning Tools	Jira, Portfolio, Confluence, Team Foundation Server now Azure DevOps

Education

University of Pittsburgh

Pittsburgh, PA

MASTERS IN BUSINESS ADMINISTRATION

2020 - Present

- Candidate for Master of Business Administration

Penn State Behrend

Erie, PA

B.S. IN COMPUTER ENGINEERING

2013 - 2017

- Bachelor of Science in Computer Engineering