

Michael Stumpf

SOFTWARE ENGINEER · EMBEDDED

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Experience

Philips Respireonics

Pittsburgh, PA

SOFTWARE ENGINEER

Aug. 2018 - Present

- **DreamStation 2** (coming soon).
 - Contributed to various bug fixes on the device writing in C/C++ for a microprocessor running a RTOS.
 - Created WPF .Net core application to upgrade the device using STM DFU protocol.
- **SmartSleep Headband**
 - Contributed to Embedded Firmware running FreeRTOS on STM4.
 - Maintained .Net framework desktop application for interacting with the device.
- **Next Gen Simply Go**
 - Used STM32F4 Development board to prototype various sensors for the new Nano Device.
 - Implemented valve control algorithms to produce 90% oxygen.
 - Worked closely with Mechanical and Electrical Engineers.
- **Agile/Supervisor roles**
 - Was placed in charge of three interns to create a new application using **Avalonia**.
 - Scrum Master on various teams.
 - Received Agile Transformation Pioneer for helping convert a team of 70 people into multiple scrum teams following SAFe practices.
- **Initiative SVN to Gitlab** Helped carry out a transition to Git from SVN for 70 plus developers. Provided training and conducted cost benefit analysis of transitioning. Worked with other team members to get buy in and convince management to let us carry out the initiative.
- **Initiative Artifactory** Identified a need for Artifact management after transition to Git. Started an initiative to add Artifactory to our CI/ CD pipeline. This required requirements generation, project planning, cost benefit analysis. Team now has an Artifactory instance that supports: Pip, Nuget, and Conan packages.

IQ Inc

Pittsburgh, PA

SOFTWARE ENGINEER

July 2017 - Aug. 2018

- **Hitachi**
 - Worked at Hitachi developing 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.

Education

University of Pittsburgh

Pittsburgh Pennsylvania

MASTERS IN BUSINESS ADMINISTRATION

2020 - Present

- Taking/ have taken classes in: Economics, Information Systems, Financial accounting, Business ethics, Organizational Behavior

Penn State Behrend

Erie Pennsylvania

B.S. IN COMPUTER ENGINEERING

2013 - 2017

- Took courses in Embedded Systems design, Microprocessors, VHDL Design, VLSI, and various Software Engineering/ Computer Science classes.

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 installers, WPF, Winforms, Node.JS
Build Tools	Conan, CMAKE, GCC, GDB, MSVC, Nuget, Pip, Visual Studio, Dotnet, Docker, Ninja, IAR, VS Code
CI/CD	TeamCity Admin, GitLab, Artifactory Admin
Source Control	Git, SVN
Languages	English