Michael **Stumpf**

SOFTWARE ENGINEER · EMBEDDED

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Experience

Philips Respironics
Pittsburgh, PA

SOFTWARE ENGINEER
Aug. 2018 - Present

- DreamStation 2 (coming soon).
    - Contributed to various bug fixes on the device
    - Create WPF .Net core application to upgrade the device using STM DFU protocol.
- SmartSleep Headband
    - Contributed to Embedded Firmware running FreeRTOS on STMF4.
    - 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.
    - Required working closely with Mechanical and Electrical Engineers.
- **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 support Pip, Nuget, and Conan

IQ Inc
Pittsburgh, PA

SOFTWARE ENGINEER
July 2017 - Aug. 2018

- future

Education

University of Pittsburgh
Pittsburgh Pennsylvania

MASTERS IN BUSINESS ADMINISTRATION
2020 - Present

- Information Systems: Learned about managing complex technical projects.
- Financial Accounting: Learned basics of firm's reports from a user's point of view.
- Economic Analysis for Managerial Decision: Developed understanding of hom market-based economic system reconciles the separate needs of consumer and producers.

Penn State Behrend
Erie Pennsylvania

B.S. IN COMPUTER ENGINEERING
2013 - 2017

- Embedded Systems Design: Surface mount Soldered PIC 18F26k22 Development boards. Programed Pic in both PIC assembly and C Integrated Raspberry PI, EEPROM, and Other Circuitry using the I2C Protocol
- VLSI Design: Learned basics of digital circuit design using CMOS transistors.
- Microprocessors: Introduced to MIPS Assembly, created multiple program using assembly language only. Made Pokemon battle simulator for the final project.

Skills

Programming	C/C++, C#, Python, RUST, Node.JS, LaTeX, Lua
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, MSVC, Nuget, Pip, Visual Studio, Dotnet, Docker, Ninja, IAR
CI/CD	TeamCity Admin, GitLab, Artifactory Admin
Source Control	Git, SVN
Languages	English