

# Justin Engel

#### Senior Software Engineer

Also known as the Python help desk

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https://justengel.com

https://github.com/justengel

## Skills —

Version Control (git, hg)

Time Managment

Python

С

Javascript

Java

DevOps (Jenkins, Groovy, bash, sh)

Databases

HTML | CSS

Qt for Python

Linux

Other: Iridium 9602, Pelco-D, TCP, UDP Multicast, Serial Port (UART), Threading, Multiprocessing,

PySide2, Numpy, Numpy C API, Matplotlib, Tox, pytest, Django, Sphinx, Markdown, Leaflet,

Nginx, Inkscape, Pycharm, LaTex, Qt Creator, Inno Setup (Pascal), Visual Studio Code, Kanban, Scrum, Agile

## Experience

- 2013 Pres SeaLandAire Technologies Inc. Senior Software Engineer - Software Group Lead
  - · Worked closely with team members to diagnose and solve problems
  - Estimated and managed project timelines
  - Developed sharable libraries and frameworks
  - Turned rough ideas into well-structured applications
  - Wrote clean reusable code with a focus on structure and flexibility
  - Modified large legacy code bases while keeping existing functionality
  - Forked and contributed to widely used 3rd party libraries
  - Learned various engineering skills through books and online research
  - · Assisted Engineers from other disciplines to optimize their workflow
  - Profiled software to improve memory efficiency and performance
  - Validated products with custom test software
  - · Created realtime data analysis software used in field tests
  - Deployed a Jenkins build server and an internal pypi server
- 2011 2013 Air Force Institute of Technology Undergraduate Research Assistant

WPAFB, OH

- Developed Internationally deployed laser simulations in Matlab
- Proposed new software design implementation
- Converted the entire codebase into an organized Object-Oriented Design application
- Created a user's guide which was released with software to DOD agencies

### Education

2013 Cedarville University

Cedarville, OH

- Bachelor of Science in Computer Science
- Minor in Mathematics

#### Accomplishments

- Developed a custom UI framework with notifications, user preferences, help information, logging, automatic updates, plugins, and email support for user feedback
- Created a vehicle control and monitoring application
  - Talked with devices using TCP, UDP Multicast, Iridium, ENet, Serial Port
  - Integrated VLC with Qt to show a live video feed
  - Drove the vehicle using a gamepad with sdl2
  - Mapped the vehicle's progress using Leaflet
- Constructed live FFT plots to analyze real time under water acoustics
  - Converted incoming binary data to a Wav file
  - Plotted a software O-Scope for debugging

Jackson, MI