

Dejapong Suwaratana

Senior Software Engineer

Creative full-stack engineer with 10+ years of experience developing reliable yet flexible web applications. Experienced programmer, well-versed in test-driven development using a wide range of languages and frameworks. Developed cockpit and ground control systems for KittyHawk's flying car, Cora. Adept communicator and valued team member.

Personal Information

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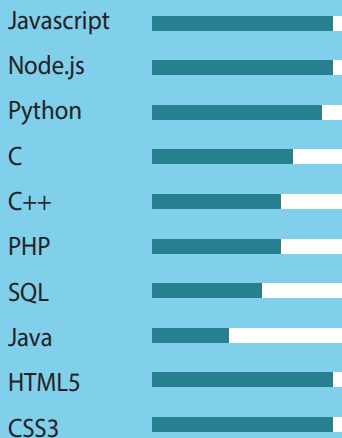
Hard Skills

Software Development
Software Debugging
Test-Driven Development
Human Interface Design
Physical/Electronic Prototyping

Soft Skills

Project Management
Team Communication
Keeping Meetings Efficient

Languages



Frameworks & Software

Django Beautiful Soup
React/Redux Creative Suite
Vue Solidworks
Jekyll
ExpressJS

Experience

Jan 2018 - present **Traveler**

Taking a year off from traditional work to reconnect with what motivates me as an engineer, visit family, and go surfing

Jan 2016 - Dec 2017 **Senior Interaction Engineer, KittyHawk Corp.**

- Designed and developed a browser-based ground control system which included a customizable widget based dashboard, using C, Javascript and WebGL
- Within a six month deadline, lead a team to develop hardware and software for a cockpit display using C++ and OpenGL
- Using React, ExpressJs, and PostgreSQL, developed data monitoring web application for searching and aggregating historic flight data
- Architected and developed software to route and visualize data streams across devices for engineers in 4 departments
- Used laser and hotwire CNC as well as 3D printing to rapidly created cockpit mockups using plywood and fiberglass for ergonomic studies
- Performed CAD-based mechanical design and environmental testing for cockpit display hardware
- Created aircraft interfaces using Arduinos to replace flight controls with customized PC joysticks in the simulator

Jun 2012 - Dec 2015 **Aerospace Engineer, KittyHawk Corp.**

- Designed, managed, and led the development of browser-based tools for tracking aircraft weight and balance history using Django and openAuth 2.0
- Created a web application for comparing simulation results using Javascript, WebGL, and PHP
- Created a Chrome app and Java server for synchronizing multiple vehicle change logs while offline, during field operations
- Prepared and ran over 100 computational fluid dynamic simulations on complex aircraft geometry using Python scripts to automate tasks

Jan 2012 - Jun 2012 **UX/UI Designer, E la Carte, Inc.**

- Designed interface layouts in Photoshop and converted them into C++ with QT
- Coordinated software planning with a remote developer team

Oct 2009 - Jan 2012 **Design Engineer, Desktop Aeronautics, Inc.**

- Developed graphical user interfaces for aircraft design software in Java, SWT, and OpenGL
- Helped create new features for parametric aircraft geometry modeling software
- Designed and maintained the company website

Education

May 2009 **BS Aerospace Engineering**
Missouri University of Science and Technology

Publications

Suwaratana, Dejapong; Rodriguez, David (2011)
"A More Efficient Conceptual Design Process Using the RAGE Geometry Modeler" 49th AIAA Aerospace Sciences Meeting, Orlando Florida, 4-7 January 2011