

Benjamin Folks

E: bfolks2@gmail.com • M: (630)-217-5872

www.benfolks.com • www.linkedin.com/in/benjamin-folks-595b7139

Aerospace-Software Engineer

Aerospace Engineer and Instrument-Rated Pilot with over 200 flight hours and eight years of manufacturing, design, and software experience in the fields of aeronautics and astronautics

Professional Experience

Astra • Alameda, CA • September 2019 – Present

Aerospace manufacturer and launch service provider developing high performance orbital vehicles

Senior Software Engineer

- Lead technical development of a data-driven rocket factory system for managing the assembly procedures of each rocket, to be utilized by the US Air Force, DARPA, and NASA
 - Collaborate with systems/product teams on Mission Control software for orbital launch vehicles
 - Create unit, integration, and acceptance tests in order to deliver maintainable code
-

AdThrill • Chicago, IL • December 2017 – Present, (Part-Time, Remote)

Start-up website for users to watch and rate advertisements (adthrill-prod.herokuapp.com)

Technical Lead

- Manage software architecture, implementation/testing of code, and deployments to production
 - Compile/analyze all user-response data and allow businesses to view their corresponding results
-

RedShelf • Chicago, IL • January 2018 – September 2019

Content delivery system for providing digital materials to educational institutions

Full Stack Developer

- Work within an Agile engineering team using SCRUM methodology and continuous integration
 - Set up new architectures to centralize business logic and maintain clear domain layers
 - Build Django/DRF API endpoints allowing authenticated clients to access read/write operations
 - Manage scheduled and on-demand asynchronous Python tasks using Celery
-

DP Technology – ESPRIT • Rosemont, IL • July 2012 – December 2017

Developer and supplier of computer-aided manufacturing (CAM) software for CNC machine tools

Senior Applications-Manufacturing Engineer

- Create technical designs and determine machining processes/tooling necessary for manufacturing aerospace turn-key parts on CNC mills, lathes, and multitasking machines
 - Build CAD designs and assemblies of dynamic machine models using SolidWorks 3D CAD
 - Develop VB.NET/VBA applications within the ESPRIT API to automate machining processes
 - Traveled onsite to 35+ aerospace/US gov't clients to oversee technical projects and trainings
-

Technical Skills

Programming Languages, Frameworks, & Technologies:

Python, Django/DRF, JavaScript, TypeScript, Node.js, Angular, Ember.js, HTML/CSS, VB.NET/VBA, C++, PostgreSQL, MongoDB, Linux/Unix, AWS

Design Tools (CAD):

SolidWorks 3D CAD, ESPRIT CAD/CAM

Education

BS Aerospace Engineering • University of Illinois at Urbana-Champaign

FAA Certified Private Pilot - Instrument Rating