

Benjamin Folks

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Aerospace-Software Engineer

Aerospace Engineer with seven years of Manufacturing, Design, and Software experience. Over 150 hours of flight time gained as an **FAA Certified Instrument-Rated Pilot**.

Professional Experience

Stealth Space Company (Astra Space) • Alameda, CA • September 2019 – Present

Launch company developing high performance electric pump-fed orbital launch vehicles

Software Engineer

- Collaborate with systems and product teams on Mission Control software for orbital rockets
 - Develop data-driven system for managing the assembly procedures of each launch vehicle
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AdThrill • Chicago, IL • December 2017 – Present, (Part-Time)

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

Technical Lead - Python Engineer

- 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
 - Create Python algorithms to optimize searches between businesses and target audiences
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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
 - Create unit, integration, and acceptance (Selenium) tests in order to deliver maintainable code
 - Setup new architectures to centralize business logic and maintain clear domain layers
 - Build API endpoints allowing authenticated clients to access read/write operations
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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 over 35 aerospace and US government clients, including NASA Glenn, Woodward Inc, and Tinker AFB, in order to oversee technical projects and training classes
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Technical Skills (rated from 1-10)

Programming Languages, Frameworks, & Technologies:

Python	●●●●●●●●○	Django/DRF	●●●●●●●●○
HTML/CSS	●●●●●●●●○	JavaScript/Ember.js	●●●●●●●●○
PostgreSQL	●●●●●●●●○	VB.NET/VBA	●●●●●●●●○
Linux/Unix	●●●●●●●●○	C++	●●●●●●●●○

Design Tools (CAD):

ESPRIT CAD/CAM	●●●●●●●●○	SolidWorks 3D CAD	●●●●●●●●○
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Education

BS Aerospace Engineering • University of Illinois at Urbana-Champaign • 2011

FAA Certified Private Pilot - Instrument Rating