Bethany Baldwin-Pulcini

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Austin, TX | bethanypulcini.com

EDUCATION

UNIVERSITY OF CALIFORNIA, DAVIS
BS in Physics
Concentration Astrophysics
Dec 2015 | Davis, CA

SKILLS

Software
- Python
- Linux
- Git
- AGI STK Level 1 Certified
- JAMA
- Jira
- Confluence
- Microsoft Office Suite

Other
- Project Management
- Requirements Management

INTERESTS

Space Policy
- Delegate to the Space Generation Forum 2.0 in Vienna, Austria in support of UNISPACE+50

Outreach
- Dedicated outreach speaker, sitting on panels, engaging in classrooms, and presenting science topics at STEM outreach events

PUBLICATIONS

Henely, S., **Baldwin-Pulcini, B.**, Smith, K. (2019) "Turning Off the Lights: Automating SkySat Mission Operations." 33rd Annual AIAA/USU Conference on Small Satellites.

EXPERIENCE

FIREFLY AEROSPACE | Systems Engineer
October 2019 - Present | Austin, TX

Responsible Engineer for the Flight Termination System of the Alpha Launch Vehicle
- Primary interface between Firefly, the FAA, and the USAF 30th Space Wing for Alpha's flight safety systems.
- Manage vendors and ensure hardware and reporting complies to Firefly requirements.
- Author and review test procedures and manage acceptance and qualification campaigns for Firefly-designed avionics components.
- Track and deliver documentation of system requirements, range safety compliance, system functionality, vehicle environments, and test procedures.
- Negotiated tailoring of range safety requirements between Firefly, Western Range Safety Office, FAA, and hardware providers for Alpha's flight safety systems.
- Familiar with: RCC 319-14/319-19, RCC 324-11, MIL-STD-810G/H, SMC-S-016

EMERGENT SPACE TECHNOLOGIES | Software Engineer
April 2019 - October 2019 | Austin, TX
- Developed command-line tool to manage applications for deployments of GSFC's Core Flight Software, to facilitate rapid prototyping for multi-satellite missions

PLANET LABS, INC | Space Systems Engineer
April 2017 - April 2019 | San Francisco Bay Area, CA

Ensured the continued health and safety and 24/7 operations of Planet's fleet of SkySat satellites
- Produced nominal and contingency spacecraft procedures and ensured successful execution on-orbit.
- Leveraged troubleshooting skills to investigate and respond to satellite anomalies.
- Led acceptance testing and on-orbit release for 6 releases of onboard software, which increased imaging capacity and reduced downtime of the SkySat fleet.
- Architected and developed software to automate spacecraft commanding and anomaly recovery, projected to save the operations team more than 20 person-hours/week

TERRA BELLA (GOOGLE) | Satellite Controller
April 2016 – April 2017 | Mountain View, CA
- Supported 24/7 on-orbit operations for Terra Bella's fleet of seven satellites, involving anomaly response, executing on-orbit activities for multiple engineering teams, and supporting commissioning activities.
- Developed a Python script to automate RFI avoidance with NASA satellites to support a push towards automating daily and weekly procedures.
- Acquired by Planet Labs, Inc.