Bethany Baldwin-Pulcini

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2401 Aldrich St # 401, Austin, TX 78723

EDUCATION

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

SKILLS

Technical Skills
Python
Bash
Linux
Git
Other Skills
Project Management
AGI STK Level 1 Certified

INTERESTS

Space Policy
• Delegate to the Space Generation Forum 2.0 in support of UNISPACE+50
• Provided recommendations to the United Nations Office of Outer Space Affairs
STEM Outreach
• Public speaker for panels, classrooms, and STEM outreach events

EXPERIENCE

EMERGENT SPACE TECHNOLOGIES | Software Engineer
April 2019 - Present | Austin, TX

- Building a tool in Python to facilitate using GSFC's Core Flight Software for new 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

- Derived requirements for 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.
- Managed a cross-functional team to relocate, install, and verify functionality of SkySat test hardware and ground support equipment.
- 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.

UC DAVIS NUCLEAR PHYSICS GROUP | Undergraduate Research Experience (REU)
Summer 2014 | Davis, CA

- Used C++ and the data analysis framework ROOT from CERN to generate simulations to model heavy ion collisions.
- Analyzed simulated collisions for energy distribution, particle multiplicity, and cross-sectional area of collision.

PUBLICATIONS

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