

Philip Venturelli

Aerospace Systems Engineer Seeking Remote Work

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EXPERIENCE

Redmoon Systems, Prescott, AZ — CTO

2018 - PRESENT

Developed technologies for Moon and Mars remote sensing missions including resident space object tracking using infrared systems and technologies. Also developed satellite constellation optimization models using quantum computing.

Stanford Mu Corporation, Long Beach, CA — Project Engineer

2015 - 2017

Served as cognizant engineer during modeling and simulation effort at Boeing, Huntington Beach for Commercial Crew Replacement Vehicle (Space Shuttle Successor).

Web4, Anaheim Hills CA - Product Mgr / SW Eng.

Engaged with customer for requirements definition, provided guidance and oversight to the software engineering team using agile development cycle and performed software testing.

Raytheon, El Segundo, CA — Senior Systems Engineer

MONTH 2004 - MONTH 2014

Performed validation and verification of requirements for NASA and DOD payloads involving infrared sensor technology. Served as cognizant engineer.

EDUCATION

Caltech, Pasadena, CA — BS. Physics and Astronomy

October 1998 - June 2002

R&D in ultrasonic levitation and particle manipulation for the Caltech Jet Propulsion Center

UCLA, Los Angeles — Ph.D. Student Computer Science

Dec. 2004 - Jan 2008

R&D in astrophysics for modeling rotating stars and black holes

SKILLS

Skilled in Matlab and Python for algorithm development

Author of multiple research papers and patents

Modeling and Simulation (10+ years)

Customer interface skills

Leadership in Engineering

Leadership as a Business Development Officer

AWARDS

Vice Chair of the AIAA Space Systems Technology Committee (American Institute for Aerospace and Aviation)

Feynman Research Grant Recipient awarded jointly from Caltech and NASA

Summer Research Fellowship Award Winner (Caltech)

LANGUAGES

English and ability in French, Italian, and Spanish