Vose K

Engineer, 3+ years experience
Tucson, United States
https://augmntx.com/profile/engineer-vose-k/axf17275

+91 9820045154 | hr@augmntx.com

Although my background is concentrated in orbital mechanics, I am open to any remote position that requires strong analytical and problem-solving skills. Finding a remote job is my priority as it will provide the flexibility for the lifestyle I desire.

INDUSTRIES: Aerospace

TECHNICAL SKILLS

• Python	2 years & 10 months
• Agile Methodologies	2 years & 4 months
• Linux	2 years & 10 months
• Git	2 years & 10 months
• Gitlab	2 years & 10 months
• Machine Learning	3 months
• Shell Scripting	3 months

PROJECT DETAILS

• Astrosage June-2021 - March-2024

Project Description: Software that detects, characterizes, and predicts satellite maneuvers.
Responsibilities: Operate and develop software that detects, characterizes, and predicts satellite maneuvers. Research and analyze effectiveness of potential features; implement features. Troubleshoot software errors, diagnose problems, implement and test solutions. Wrote a Python API for an orbit determination software. Analyze software performance and outputs.
Technologies: python, sqldeveloper, kafka, kubernetes, docker, redis
Industry: Aerospace

• Cislunar Mission Design September-2020 - December-2020

Project Description: Design a transfer orbit between two cislunar orbit families in the circular restricted three body problem.
Responsibilities: Utilized invariant stable and unstable manifolds and a multiple-shooting approach to recover continuous transfers between L1 and L2 Lyapunov orbits in the CR3BP.
Technologies: MATLAB
Industry: Aerospace

EMPLOYMENT HISTORY

• Engineer June-2021 - March-2024

Description: Operate and develop software that detects, characterizes, and predicts satellite maneuvers. Research and analyze effectiveness of potential features; implement features. Troubleshoot software errors, diagnose problems, implement and test solutions. Wrote a Python API for an orbit determination software. Analyze software performance and outputs. Software processes large amounts of incoming data and outputs even more processed data. Operator must be familiar with data itself and methods of accessing data for proper analysis.

CERTIFICATION

• Certificate in Astrodynamics and Satellite Navigation by University of Colorado Boulder 2021

EDUCATION

- Masters degree in Aerospance Engineering from University of Colorado Boulder 2019 - 2021
- Bachelors degree in Chemical Engineering from University of Pittsburgh 2011 - 2015

LANGUAGES

- English - native

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