Timothy Polnow

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Portfolio: www.timin8er.com

Education

Old Dominion University, Norfolk VA, Graduated June 2017

      Bachelors in Mechanical Engineering, Power and Energy   Courses in HVAC Design and Gas Dynamics.

      Minor in Computer Engineering   Courses in Advanced Algorithms and Microcontrollers.

Security Clearance

Top Secret with SCI

Experience

Technology Service Corporation, TSC (October 2017 - Present)

- **Robotic Servicing of Geosynchronous Satellites (RSGS)**

Developed and led the team for the Robotic Operations Tool Kit, a database-centric planning and control software that interfaced with both real and simulated flight software. The project encompassed robot move planning tools, data verification, and product storage functionalities. Facilitated telemetry visualization and systems commanding to ensure rapid planning and smooth satellite operations.

- **Web Development**

Successfully completed several website projects for publishing scientific data, showcasing proficiency in creating intuitive and user-friendly websites and data collection interfaces.

- **Cloud Architecture**

Demonstrated expertise in designing and implementing cloud architectures, contributing to scalable and efficient cloud-based solutions.

VEX-U Robotics Team (August 2016 - April 2017)

Engineer for the chassis, drivetrain, and lifting arm.

International robotics competition where colleges and universities design, build, and program robots to compete against each other in a game-based engineering challenge. Achieved 2nd In New York Tournament.

Cosmic KSP

A portfolio project to leverage real ground station software, Cosmos, to control the acclaimed video game Kerbal Space Program (KSP). The project's objectives encompass commanding KSP spacecraft through Cosmos, receiving telemetry from KSP within Cosmos, and implementing a simulation environment to validate and screen commands before their actual execution.

Skills

- Python
- Docker
- Django
- Java
- C++
- C#
- Matlab
- Assembly
- MySql
- Kubernetes

References

Jamie Lennon
Manager for RSGS
443-542-8686

Timothy Werder
Coworker from TSC
843-605-3931

Patrick Jones
Coworker from TSC
240-217-7895