Kendall Wilkinson

ROBOTICS ENGINEER • SOFTWARE DEVELOPER

PROFILE

Positive, enthusiastic, software developer, robotics engineer and expert problem solver with over fifteen years of experience designing, building, testing, and deploying software and hardware solutions for the Oil and Gas and Space industries.

CONTACT

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WORK EXPERIENCE

- **Senior Software Engineer**
  NOVIUM DESIGNS — August 2022 – Jan 2023
  • Developed space flight software to support the common birthing mechanism for a new commercial space-station using C++ and QT
  • Created a Python application to control a tracked vehicle for mining applications
  • Implemented development processes for space flight software including version control with Git, automated unit testing and static analysis
- **Robotics Engineer**
  BARRIOS TECHNOLOGY — Nov 2021 – Aug 2022
  • Supported NASA in developing test procedures for robotic systems on the International Space Station (ISS) on the JETS contract at Johnson Space Center
- **Automation Engineer**
  NABORS INDUSTRIES — April 2017 - Nov 2021
  • Designed fully automated robotic equipment with synchronous motion control for drilling operations using Siemens PLCs and Simotion motion controller
  • Utilized ROS 1 in a Linux (Ubuntu) environment to log data in an SQL Server database and produce optimization reports using the latest Python libraries
  • Built a Python backend application with PostgreSQL database and HTML5/ JavaScript frontend to track assets during automated operations on a drilling rig
  • Developed a vision system for detecting a key process event using classic vision and machine learning algorithms with OpenCV package for Python
- **Automation Engineer**
  SUBMERSIBLE OIL-PUMP SERVICES — Aug 2016 - Apr 2017
  • Built custom software for testing submersible oil pumps based on customer and API standards with intuitive touchscreen user interface
  • Automated test systems to decrease testing time by utilizing PID control loops to achieve a desired flowrate by controlling the position of high-pressure valves
  • Trained customers on equipment and collected user feedback for design improvements

EDUCATION

- **Master of Computer Science**
  RICE UNIVERSITY (4.0 GPA) — Aug 2022 – May 2025 (Expected)
  Master of Business Administration
  UNIVERSITY OF HOUSTON DOWNTOWN (3.74 GPA) — Jan 2019 - Aug 2022
- **B.S. Controls and Instrumentation Engineering Technology**
  UNIVERSITY OF HOUSTON DOWNTOWN (3.2 GPA) — Jan 2012 – May 2017

SKILLS

Robotics | AWS | Django | Version Control (Git) | Machine Learning | QT 6 | Agile | ROS1/2 | CI/CD | Simulation | LabVIEW | Solidworks | PLC Programming

SOFTWARE

Python
SQL Database
C++
Linux

CERTIFICATIONS

Certified Associate in Project Management (CAPM) — Project Management Institute
Certified Cloud Practitioner — AWS