

Hayes David Bentley

(419) 204 – 1552 bentley.206@osu.edu Expected Graduation: December 2023

Overview: Aspiring software and automation engineer pursuing full-time employment graduating in Dec 2023. Excited to tackle new challenges and looking to apply skills learned in four internships, research positions, and University project experience.

Education and Honors

The Ohio State University, College of Engineering, Aug 2019 – Present

Bachelor of Science, Electrical and Computer Engineering (B.S)

North Central State College, Aug 2017 – May 2019

Associate of Science, Integrated Engineering Technology (A.S)

Work Experience

SpaceX, Incoming Automation Software Engineering

Starship Production, May 2023 – August 2023: Boca Chica, TX (Starbase)

Tesla Motors Inc, Data and Automation Engineering

Cell Manufacturing, September 2023 – Present: Austin, TX (Gigafactory Texas)

- Automated manufacturing process by creating custom gRPC data pipeline, decreasing process time by 97%.
- Developed federal cell tracking system using REST API and Python, increasing cell throughput by over 50%, which will be used in Cybertruck production.

Marathon Petroleum Corporation, Automation and Controls Engineering

Terminal Engineering, May 2022 – August 2022, Findlay, OH

- Upgraded PLC/Communications network at a petroleum consumer facility.
- Developed low level PLC code to enact control measure for petroleum mixing/blending.

Marathon Petroleum Corporation, Application Development Engineering

Commercial Marketing Applications, May 2021 – August 2021, Findlay, OH

- Built custom .NET Core web application using C#, SQL Server, and Kendo UI (Javascript)
- Converted cloud-based Salesforce CRM data into local SQL Server databases.

Research Experience

Center for Design and Manufacturing Excellence, Student Software Engineering

Student Software Engineering, September 2021- May 2022, Columbus, OH

- Created android application interfaced with mobile Spectrometer using BLE.
- Pulsed business need from Ph.D.'s in Electro Science and Food Science Lab.

Leadership Experience

- Project leader on electric vehicle racing team (North Central State College) managing five other students
- Training supervisor of 30 technicians, educating on the implementation of cell tracking system (Tesla)
- Operations coordinator synchronizing wiring efforts of 10+ electricians (Marathon)

Qualifications and Characteristics

Programming Languages: Python (strong), Java, Go

Software: Ignition, Apache Airflow, Kubernetes, Splunk

Software Skills: gRPC, REST API, Protocol Buffers

Database: Amazon AWS S3, Trino, MySQL, Postgres, Dbeaver

References

- Vimal Buck, Senior Research Lead Engineer, Buck.80@osu.edu, (614) 907-3074
- Dan Bearfield, Senior Controls Engineer(Marathon), dbearfield@marathonpetroleum.com
- Samantha Mateo Camaran: Senior Program Manager (Tesla), smateocamaran@tesla.com