

Austin Vaughn

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Education

B.S. MECHANICAL ENGINEERING | AUGUST 2013 – DECEMBER 2017

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

John Deere Experience

SR. PV&V PERFORMANCE ENGINEER | JOHN DEERE: PRECISION UPGRADES

Nov. 2023 – PRESENT

- Create and lead validation test plans for John Deere Start-Up team to bring See and Spray to new machines
- Develop testing resources in Brazil for growing our capability and ability to quickly release new tech to the market
- Create software feature requirements for development and validate on machine performance
- Determine business cases, establish customer value, budget and resource allocations for PDP projects

PV&V PERFORMANCE ENGINEER | JOHN DEERE: APPLICATION

DEC. 2021 – Nov. 2023

- Created and lead test plans for CI Feature Adds, Quality, and Cost Reduction projects
- Onboarded new customers to be lead users for experimental testing. Taught them new tech and value propositions
- Managed PV&V field testing and create highly impactful relationships with dealerships and service managers
- Developed new processes to lower machine FPM and engineering efficiency

MACHINING QUALITY ENGINEER | JOHN DEERE: POWER SYSTEMS

Nov. 2020 – DEC. 2021

- Oversaw Engine Works metrology data acquisition, database management, reporting and analysis
- Lead business case development of a new enterprise statistical analysis and measurement tech stack
- Supervised and supported a team of eight gage technicians, by developing workflow processes and scheduling

DIESEL ENGINE COOLING AND LUBE DESIGN EDP ENGINEER

JUNE 2020 – Nov. 2020

- Coordinated part development alongside supply management team, ETEC, and external suppliers
- Designed engine cooling and lube hardware for new engine programs utilizing modeling techniques
- Investigated NCCAs, document design processes and track through ETN system

ENGINE WORKS QUALITY AND MANUFACTURING EDP ENGINEER

Nov. 2019 – JUNE 2020

- Investigated and determined corrective action for maintaining factory quality initiatives
- Oversaw assembly line practices to ensure efficiency, conduct maintenance and seek process improvements
- Collaborated with union employees to pursue lowest cost of poor quality and meet engine build deadlines

FIELD PERFORMANCE EDP ENGINEER

MARCH 2019 – Nov. 2019

- Utilized machine telematics data and analytic software to support product quality initiatives
- Facilitated performance review board meetings to drive EETS resolution for customers engine performance issues
- Analyzed and extracted cloud stored engine data for machine learning alerts to diagnosis and prevent field failures

MECHANICAL DEVELOPMENT PV&V EDP ENGINEER

FEB. 2018 – MARCH 2019

- Coordinated wage test technicians to conduct engine durability dyno testing on various components.
- Report durability and performance results to software and design teams

- Utilized physical testing and model analysis to create new software control strategy for turbocharger system

CONTINUOUS IMPROVEMENT AIR SYSTEM INTERN ENGINEER

MAY 2017 – AUG. 2017

- Collaborated with international manufacturing facilities to conduct root cause analysis of air system actuator failure and develop solutions for optimal performance
- Conducted exhaust throttle thermal mappings to develop performance limits for H-bridge drivers in the ECU

PERFORMANCE AND EMISSIONS CALIBRATIONS INTERN ENGINEER

MAY 2016 – AUG. 2016

- Developed performance and emission calibrations for various engine programs
- Conducted standardized government regulated emissions tests through support of Dynamometer Test Cells

External Experience

AI START UP COMPANY OWNER | THE CONTENT VAULT

OCT. 2023 – PRESENT

- Founded and developed ContentVault.ai
- Created company vision and lead software team to build a new ai tool for social media marketing
- Hired and developed B2B sales and marketing, and content design teams
- Developed customer success strategies for maximizing customer utilization and reducing churn
- Used data analytics to drive key business decisions for increasing LTV/CAC ratio and develop new features

REAL ESTATE AGENT | VAUGHN REAL ESTATE

JUN. 2020 – JAN. 2024

- Developed marketing and sales skills. Targeted clients with short form video, google ads and email marketing.
- Honed negotiation, conflict management and customer service skills
- Managed home sales and closing timeline to ensure smooth transitions for families
- Created relationships with business leaders in the Cedar Falls and Des Moines metro

LAWN CARE BUSINESS OWNER | AV MOWING

MAR 2008 – OCT. 2016

- Held yearly lawn care contracts for 125 residential and commercial clients
- Developed leadership and personal skills with employees
- Maintained customer relations and ensured quality workmanship

Skills and Proficiencies

Problem Solving

Project Planning

Marketing

Creativity

Customer Relations

Business Finance

Teamwork

Budgeting

Content Creation

Leadership

Sales

Decision Analysis