



CHRISTOPHER BLESSING

Address: 2288 Angel Ave, Toledo, OH 43611

I am a highly skilled, driven, and innovative engineering professional with a proven track record in fostering innovation, managing multiple projects, and enhancing operational efficiency. Seeking an engineering management role to leverage my expertise in product development, strategic planning, and team leadership. Committed to driving growth, exceeding performance metrics, and championing new technologies in the organization.

CONTACT

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2288 Angel Ave, Toledo, OH 43611



EDUCATION

Bachelor of Science in Technology
Electro-Mechanical Systems Technology
Bowling Green State University | 2014

MIT Sloan Corporate Innovation
Strategies for Leveraging Ecosystems
2024

TECHNICAL SKILLS

Data Acquisition

HBM

Dewesoft

Project Management

Teamwork

Linear

Jira

Microsoft Project

Efficiencies

Copilot

Motion

CAD/FEA/CFD

SolidWorks

Shapr3D

Onshape

NX

Inventor

AutoCAD

FLOEFD

PROFESSIONAL EXPERIENCE

ENGINEERING MANAGER

INNOVATION / TOOLS & SAFETY
July 2022 to Present

WURTEC

Toledo, OH

Sub Roles:
Program Manager
Project Manager
Product Manager

Key Achievements:

VAVE: Savings > \$500,000
AM: Savings > \$300,000

LEAD ENGINEER

INNOVATION / TOOLS & SAFETY
July 2021 to July 2022

WURTEC

Toledo, OH

- I manage a team of 6 different specialties. Electrical Engineer, Embedded Software Engineer, Advanced Product Development Engineer, Mechanical Engineer, Engineering Lab Technician, and a Mechanical Designer.
 - Fostered innovation within our organization, cultivating a culture that encourages creative thinking in our internal operations, product design, and customer interactions.
 - Managed a multitude of projects from various stakeholders with efficiency and focus.
 - Oversaw all program management activities, ensuring each project is completed successfully and contributes to our profitability.
 - Proactively identified Value Analysis/Value Engineering (VAVE) opportunities to enhance our organization's bottom line.
 - Ensured our engineering operations run smoothly and align with our organizational directives.
 - Proposed and executed the purchase and implementation of two resin 3D Printers accounting for significant component savings and additional capabilities.
 - Initiated and continuously developing partnership with our additive manufacturing supplier
 - Initiated and continuously developing relationship with universities to drive innovation.
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- Enhanced product quality and project efficiency by implementing a comprehensive design review process.
 - Promoted innovation across the organization by initiating think tank meetings.
 - Ensured components met necessary CE and UKCA certifications.
 - Developed new products and engineered custom products to meet specific scopes and specifications.
 - Was involved in the complete product lifecycle - designing, detailing, analyzing, and testing products.
 - Boosted the efficiency and knowledge of the engineering department.
 - Mentored the tools and safety engineering team, imparting best practices, processes, and procedures.
 - Assisted with the onboarding of new engineering employees.
 - Developed and refined departmental processes and procedures.
 - Conducted research to analyze the feasibility, design, operation, or performance of components and systems.
 - Managed program activities, creating timelines and managing budgets for projects.
 - Explored new and emerging technologies, innovations, and opportunities.
 - Led and coordinated design and innovation efforts, overseeing projects from ideation to commercialization.

CHRISTOPHER BLESSING

ENGINEERING MANAGER

LinkedIn

www.linkedin.com/in/chris-blessing-713a92b7



YouTube

www.youtube.com/@christopherblessing1



Instagram

www.instagram.com/chris.blessing.1/



Thingiverse

www.instagram.com/chris.blessing.1/



Certifications

Agile Leader

SSGI | 2021

VTMP

Vertical Transportation Management Program

NAEC | 2022

**Essentials - A17.1/CSA B44 Safety Code for
Elevators and Escalators**

ASME | 2021

EXPERTISE / SKILLS

Team Management •

Innovation Cultivation •

Project Management •

Program Oversight •

Value Analysis/Value Engineering (VAVE) •

Engineering Operations •

Performance Measurement •

Mentorship •

Process Development •

Product Lifecycle Management •

Strategic Technology Evaluation •

Quality Assurance •

Departmental Efficiency •

Onboarding •

Operational Strategy •

R&D •

PROFESSIONAL EXPERIENCE (CONTINUED)

MECHANICAL DESIGN

ENGINEER

TOOLS & SAFETY

Feb. 2021 to July 2021

- Crafted and detailed designs for both R&D and production.
- Analyzed and tested tools, components, and systems for elevators.
- Ensured follow-through on engineering changes, maintaining the integrity of our designs.
- Conducted research to scrutinize the feasibility, design, operation, or performance of various components and systems.
- Provided technical and sales support for both Wurtec-manufactured and distributed products, ensuring customer satisfaction.
- Supported manufacturing during the product launch phase, ensuring a smooth transition from design to production.
- Created comprehensive product documentation, including specifications and instruction manuals, enhancing user understanding and experience.

WURTEC

Toledo, OH

APPLICATION

ENGINEER II

Nov. 2019 to Feb. 2021

- Spearheaded program activities for a 2.0L diesel application, managing the Bill of Materials, meeting customer product and delivery requirements, and ensuring all AE documentation (including DFMEA, DVP&R, etc.) adhered to our company's high standards.
- Took end-to-end ownership of the Bill of Material for the program, overseeing it from the customer bid phase all the way to the start of production.
- Created designs in Onshape to prepare concepts for customer requests, updated 3D and 2D designs to improve response time to the customer and collaborated with designers and other Application Engineers to deliver top-notch solutions.

GARRETT MOTION

Plymouth, MI

Aftermarket Product /

Applications Engineer

May 2018 to Nov. 2019

- Was responsible for the design of both rear and front crate axles, including the Ultimate Dana 44, 60, and 80, across various vehicle platforms.
- Designed and built various prototype axles and vehicles, which involved removing OEM axles, suspension, and driveshafts and installing aftermarket counterparts.
- Ensured the plant was equipped with the proper tooling, fixturing, and documentation to build axles efficiently and effectively.
- Provided assistance on the aftermarket tech service line, answering end-user questions and helping resolve any issues they encountered.
- Maintained active communication with customers and end users at trade shows and during the building of prototype vehicles, ensuring their needs and expectations were met.

DANA

Maumee, OH

ENGINEERING SUPPORT

CORDINATOR

Jan. 2015 to May 2018

- Led the design for Light Vehicle axle rotary joints, taking charge of component design, 2D print creation, quote acquisition, part procurement, test vehicle retrofitting, and completion of key program documentation such as DVPR and DFMEA.
- Spearheaded the design, development, and testing of pneumatic manifolds and valves.
- Designed products suitable for plastic injection molding, die casting, and machining.
- Leveraged additive manufacturing to design products, including a Mechatronic control unit made of metal and plastic, aimed at improving airflow, reducing product size, and enhancing functionality.
- Designed rotary joints for commercial vehicles.
- Collaborated with core team members to develop Central Tire Inflation Systems, designing various systems for different applications in the off-highway, commercial vehicle, and light vehicle markets.
- Was responsible for supplier selection and worked closely with suppliers to develop components that meet both Dana and customer requirements.
- Tested products to SAE, ANSI, and MIL standards and specifications.
- Created test procedures for new products and established standards for product testing.
- Designed test fixtures for manufacturing facilities assembling central tire inflation system components.

DANA

Maumee, OH

CHRISTOPHER BLESSING

ENGINEERING MANAGER

Manufacturing Experience

Listed by Proficiency

- Subtractive Manufacturing •
- Additive Manufacturing •
- Laser Cutting •
- Metal Forming •
- Plastic Injection Molding •
- Die Casting •
- Sand Casting •
- Forging •
- Friction Welding •
- Laser Welding •
- Extrusions •
- Gasket Stamping •

Product Experience

- General Tools •
- False Cars •
- Safety Products •
- Pneumatic Control Units •
- Pneumatic Valves •
- Mechatronic Control Units •
- Wheel Valves •
- Quick Release Valves •
- Front Axles •
- Rear Axles •
- Air Seal Packages •
- Oil Seal Packages •
- Vehicle Turbo Chargers •
- Generator Turbo Chargers •
- Weight Shift Suspension System •
- Embedded Systems •
- Website Development •
- End of Line Testers •
- Assembly Fixtures •

PROFESSIONAL EXPERIENCE (CONTINUED)

ENGINEERING CO-OP

Jan. 2013 to Aug. 2014

DANA

Toledo, OH

- Designed and tested a Dynamic Weight Shift Suspension System, which was not only submitted for a patent but also granted.
- Traveled to customer sites to characterize vehicles for the central tire inflation system specifically for military vehicles.
- Collaborated with fellow engineers to design and test innovative new products.
- Designed a plastic injection molded Mechatronic Control Unit, which was submitted and accepted for a patent.
- Designed Die cast aluminum Mechatronic and Pneumatic Control Units, showcasing my versatility in working with different materials and technologies.

HOBBIES / INTEREST



Roller Blading / Roller Hockey



Family



3D Printing



Coaching

PATENTS

- [Front Axle Rotary Joint Assembly and The Tire Inflation System Made Therewith. US20190001762A1](#)
- [Wheel Valve Assembly & the Tire Inflation System Made Therewith. US20170368896A1](#)
- [Dynamic Weight Shift Suspension System. US10358011B2](#)
- [Extended Stroke, High Flow, Valve and the Assembly Made Therewith. US20170211719A1](#)
- [Valve Assembly for a Tire Pressure Management System. WO2016094633A1](#)
- [Control and Supply Valve Assembly for a Tire Pressure Management System. US10836220B2](#)
- [A Tire Pressure Management System. WO2017044588A1](#)
- [Channel Valve Assembly for a Tire Pressure Management System. US10843511B2](#)
- [Elevator Guide Rail Block Assembly. US20220390066A1](#)
- [Elevator inspection operation signaling system. WO2023164557A3](#)