ERIC KOZIKOWSKI

Chicago, IL
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EDUCATION

Purdue University, West Lafayette IN
Master of Science in Product Lifecycle Management May 2021

Illinois State University, Normal IL
Bachelor of Science in Engineering Technology May 2018
Focus in Manufacturing and Automations Engineering and Product Design
Minor in Computer Systems May 2018

RELATED EXPERIENCE

Sr. System Integration Engineer August 2021-Present
MxD USA, Chicago IL

- Work with a diverse group of Engineers to help introduce Industry 4.0 concepts and systems to internal equipment and partner facilities.
- Lead the development of various data acquisition projects including the use of 5G cellular to transmit machine and product data.
- Oversee the operation of factory control systems and served as a S.M.E for data acquisition, data access, and data sharing.
- Work as part of a team to design, build, and commission cyber security demonstration devices. Oversaw the lifecycle testing, quality control, and commissioning of both hardware and software components.
- Manage the lifecycle of demonstration and research testbeds from ideation, scoping, funding, design, build, and ultimately decommissioning.
- Communicate with external stakeholders, senior leadership, and corporate members on project progress and expectations, ensuring all involved were on the same page and understood project scope, approach, and expected outcome.
- Manage engineering intern groups to ensure that our interns not only learned key concepts in their respective fields, but also grew professionally to succeed in a fast paced and highly dynamic manufacturing environment.

Graduate Researcher May 2018- May 2021
Purdue University Digital Enterprise Center, West Lafayette IN

- Worked with a team of graduate researchers to support a new Intelligent Manufacturing Testbed (IMT).
- Worked on research projects to develop new methods and technologies within the field of Product Lifecycle Management and Digital Enterprise.
- Researched new methods for assembly guidance including the development of augmented reality applications and machine vision systems.
- Worked in compliance with strict customer requirements to design and prototype products for use in various industries.
- Oversaw and coordinated all lab additive manufacturing capabilities. Worked with students to review designs and emphasize design for manufacturability.
- Inspected manufactured components using CMMs as well as laser scanners.

Founder May 2016-Present
KozikPlastics, Chicago IL

- Communicated with customers to provide rapid prototyping solutions for their products and designs.
- Create 3D product designs using CAD systems like Siemens NX and Solidworks.
- Conduct Design for Manufacturing (DFM) reviews to ensure a smooth transition from design to

production.
- Coordinated inhouse manufacturing as well as outsourcing parts from nationwide vendors and partners.
- Conducted research with industrial additive equipment as part of a continued internal continuous improvement effort.

Industrial Engineer Intern February 2017- May 2018
Bridgestone Tire
- Developed plant-wide databases and programs to cut down on paper waste and time spent on filling out documentation.
- Collaborated across departments to revise data acquisition methods and understand what data could be autonomously collected and stored.
- Conduct time studies and collect data on manufacturing processes to help shorten lead time.
- Developed a dashboard that monitors all machine data submissions to flag supervisors if an process or machine errors are detected.

Design Engineer Intern Summer 2016
Midland Manufacturing, Skokie IL
- Traveled internationally as part of the engineering team to defend a high-stakes sales deal in Poland and Saudi Arabia.
- Performed endurance testing on prototypes and conducted FMEA analysis.
- Designed various fixtures for new product testing.
- Worked with sales team to better implement customer needs.
- Assisted in design decisions.

Presentations
- Development and Evaluation of a Digital System for Assembly Bolt Pattern Traceability and Poka-Yoke. ASME MSEC 2022, West Lafayette IN.
- Model Based Work Instructions using Mixed Reality Headsets. WHIN Research Session 2019, Lafayette IN.
- Digital Enterprise Test Bed implementation and Model-Based Work Instructions. CAD 2019, Singapore.
- Del Re, K., Dorribo-Camba, J., Fuerst, T., Kozikowski, E. (2019, April). Introducing PLM in the Undergraduate Curriculum. Aras ACE 2019, Phoenix, AZ.
- Model Based Work Instructions using Mixed Reality Headsets. WHIN Research Session 2018, Lafayette IN.

Papers and Publications
- *Development and Evaluation of a Digital System for Assembly Bolt Pattern Traceability and Poka-Yoke -ASME 2022*
- *Development and Evaluation of a Digital System for Assembly Bolt Pattern Traceability and Poka-Yoke -Purdue 2022*
- *Digital Enterprise Test Bed and Model-Based Work Instructions* – CAD 2019
- *PLM Implementation in a Graphical Communication and Spatial Analysis Course: Strategies and Lessons Learned* - ASEE 2019

SKILL SETS
- CAD Packages: Siemens NX, Solidworks, Autodesk Inventor, Fusion 360, PTC Creo
- Geometric Dimensioning & Tolerancing
- Design for Manufacturability (DFM)
- Additive/3D Printing Technology
- Solid and Parametric Modeling
- Product Lifecycle Management Systems: Aras Innovator and Teamcenter
- Programs: Visual Basic, Robot Studio, Quartus II, Python, C#, Aras Innovator, PC-Dmis, Polyworks, Excel, Word, Microsoft Access, Unity

LANGUAGES
Polish, conversational, reading, and writing fluency | Spanish, conversational and reading basic.