

# Enrique W. Hilst Robles

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## Work Experience:

**Process Engineer**, Transportation Operations Start-Up April 2018 – Current  
TPI Composites Newton, Iowa

- Redesign and implement fiberglass ply designs using AutoCAD, SolidWorks, and CATIA, saving \$6,000 per bus
- Provide engineering support and project management to CNC department and material installation processes
- Utilize lean concepts to improve flow of materials and general manufacturing processes
- Create and maintain work instructions for all areas of molding
- Advocate and advise lean manufacturing concepts while collaborating with kaizen teams for start-up planning

**Process Engineer**, Wind Operations January 2018 – April 2018

- Calculated laser projection timing from raw data for automated laser project
- Lead team project to implement new nesting software for an expected savings of \$154,420 per year
- Created process maps and complete presentation for corporate leadership buy-in to new software implementation
- Specified business needs to software vendor and completed approved investment proposal for \$25,000
- Coordinated with vendors, GE, and internally to implement cost-saving projects, saving a total of \$38,350 per year
- Administered engineering support and project management for six departments after co-worker left company
- Attended TPI Six Sigma training courses

**Industrial Engineering Intern**, IE Team May 2016 – December 2017

Kreg Tool Huxley, Iowa

- Created training program to teach lean manufacturing concepts to leadership and associates
- Collaborated with cross-functional kaizen teams to improve work cells and complete cell relocations
- Calculated build times to determine and set rates for process standards
- Designed and drafted new layouts for future plans while maintaining current layout

**Manufacturing Engineering Intern**, Paint Line and Assembly May 2015 – August 2015  
The Raymond Corporation Muscatine, Iowa

- Eliminated paint booth issues through research and vendor contact
- Automated data entry using VBA coding in Microsoft Excel
- Installed and created new locations for tools and parts to improve 5S
- Supervised and supported new model implementation

**Manufacturing Engineering Co-op**, Track and Transmissions Weld Group May 2014 – December 2014  
Bobcat Company Gwinner, North Dakota

- Designed new fixtures for weld assemblies to resolve production issues using Creo
- Identified and collaborated with vendor to finalize designs and quotes for a new material handling gantry machine
- Redesigned work cells and coordinated physical moves for improved processes and 5S

- Oversaw the design of new kitting carts for full transmission weld assembly

**Engineer Assistant**, Chassis Weld Engineering  
Winnebago Industries

May 2013 – April 2014  
Forest City, Iowa

- Redesigned materials flow and production floor layout designs for new \$6 million paint system
  - Completed investment proposal to board of directors by calculating time savings and re-designing facility layout
  - Built formulas and calculated estimates used in cost validation for paint system
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**Education:**

**B.S. Industrial Technologies**  
Iowa State University  
December 2017

**Associates of Arts**  
Wentworth Military College  
December 2010

**High School Diploma**  
Wentworth Military Academy  
December 2010