

TYLER HOTH

<http://www.tylerhoth.com/career/>

Permanent Address: 1510 NW Applewood St | Ankeny, IA 50023 | 563-343-9107 | thoth@iastate.edu

OBJECTIVE

Seeking to enhance the work environment and pursue perfect value delivered to the customer as a Manufacturing Engineer/Continuous Improvement Engineer utilizing experience in product design, manufacturing, and continuous improvement.

EDUCATION

Iowa State University – Bachelor of Science in Mechanical Engineering

May 2017

EMPLOYMENT HISTORY

Borgen Systems (Des Moines, IA) – Product Design Engineer

6/30/17-Present

- Developed and designed custom refrigerated display coolers for retail markets
- Generated standard work for new products, ensuring NSF standards are met
- Created bill of materials and routings using SAGE
- Reduced lead time in case production through process and design improvements
- Programmed ShopBot CNC router using V Carve Pro
- Initiated engineering procedures to reduce design time and improve communication in- and outside of the department

United Technology Corporation (West Des Moines, IA) – UTC Aerospace Systems

Mechanical Design Intern

1/24/17-5/1/17

- Working with a team to improve previous customer fuel nozzle designs by reviewing and implementing customer requirements
- Testing and updating new boundary conditions given by customers using ANSYS to determine fuel nozzle functionality
- Evaluating static loading, vibrations, thermal properties, and low and high cycle failure using ANSYS

Continuous Improvement Intern

5/16/16-5/1/17

- Developed cellular layouts that reduced square footage of line by 67%
- Implemented and applied lean manufacturing techniques that resulted in lead time reduction by 55% and WIP inventory by 25%
- Led and managed kaizen events
- Designed, tested, and implemented in line welding and welding fixtures to automate processes
- Designed fixture for nondestructive testing to reduce set up and process time
- Programmed and designed repeatability and tolerance test program and fixture for CNC machines

HNI Corporation – The HON Company (Muscatine, IA)

Manufacturing Engineer Intern

5/27/15-8/13/15

- Collaborated with a team of Engineers in fabrication of laminate components
- Justified the cost for \$200,000+ in new machinery by replacing manual machinery with automated to improve quality and reduce downtime
- Performed throughput analysis of current/future parts to best choose machinery
- Designed conveyor and logic changes for future state layouts using AutoCAD Mechanical 2014
- Wrote economic analysis of savings based on machine changes

Product Design Engineer Intern

5/27/14-8/13/14

- Identified areas of cost reduction with a team of Engineers in New Product Development resulting in \$250,000 of annual savings
- Applied geometric tolerance stacking to designs
- Led first open-ended design project for HNI Asia for HNI Corporation
- Participated in value stream mapping and material flow kaizen events for proposed future state of product line

Deck Supply Services (Blue Grass, IA) – Design Engineer

2/1/12-Present

- Designed deck parts with a small team of Engineer's for different aluminum railing systems using Solidworks and AutoDesk Inventor
- Created user instructions for installation of a variety of product lines
- Created professional renderings for company website, brochures, and installation instructions
- Developed new business inventory SKU and inventory management system

SKILLS PROFILE

- Detailed Techno Economic Analysis of energy generation systems
- Effective at creating and editing routers, generating bill of materials, and shipping parts using SAP and SAGE
- Proficient using Microsoft Office
- Extensive experience using Solidworks, ANSYS 16.1/17.0, and Autodesk Software
- Basic programming using Matlab and Python
- Trained using Pro E, Creo 2.0, and AutoCAD Mechanical 2014

PROFESSIONAL ORGANIZATIONS & ACTIVITIES

- Just Because – JustBecauseDecor.com

12/1/17 - Present

- o Creator and Manger of JustBecauseDecor.com

- Volunteer Organizations

2012 – Present

- o North Scott Rotary, Student Hunger Drive, Habitat For Humanity, and Special Olympics Iowa

- WESO – Wind Energy Student Organization: Research Committee

(Spring 2016 – Fall 2017)

- o Leader of drive train operations