

# Thomas Dzierzak

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## Education

**University of Cincinnati**, Ohio

Class of 2020

College of Engineering and Applied Science  
Bachelor of Science in Mechanical Engineering

GPA: 3.5/4.0

Carl H. Linder College of Business  
Masters of Business Administration

**Saint John's Jesuit High School**, Toledo Ohio

Class of 2015

College Preparatory

GPA: 3.6/4.0

## Work Experience

**FirstBuild** – Louisville, Kentucky

(August – December 2017, Full-time)

- Helped to develop new and innovative products for parent company GE Appliances
- Utilized many technical skills including: water jet, CNC, laser cutter, 3D printing, casting, electronics, Arduino, and Raspberry Pi to make prototypes
- Created, conducted, and analyzed data from several thermal tests to prove the accuracy of temperature probes

**GE Appliances** – Louisville, Kentucky

(January – May 2017, Full-time)

- Enhanced efficiency and effectiveness of automated microwave testing device
- Analyzed cost, performance, reliability, and customer satisfaction data on competitor units
- Performed FRACAS (Failure Reporting Analysis and Corrective Action System) in order to find and correct issues in design and production of products
- Planned and executed various volunteering events as service committee chairperson

**GEM Incorporated** – Walbridge, Ohio

(May – August 2016, Full-time)

- Performed 3D laser scanning and developed CAD models of existing manufacturing facilities
- Aided in the planning and execution of construction projects
- Used CAD models to improve construction efficiency by eliminating field interferences

## Activities and Involvement

**Toledo YES Project**

(2011 – Current)

- A service program, with over 140 high school volunteers, which helps in-need inner-city families (painting houses, cleaning houses, landscaping, etc.)
- Have continuously expanded responsibilities and have served as team leader, social chair, master of ceremonies, and project director

**Triangle Fraternity**

(2016 – Current)

- Greek engineering organization focused on academics and brotherhood
- Served as new member education chairperson

**Engineering Diplomats**

(2017 – Current)

- Organization focused on assisting international students from Chongqing University acclimate to UC's campus and US culture
- Served as peer mentor

## Skills

- **3D modeling:** Onshape, SolidWorks, AutoCAD Plant 3D
- **Rapid Prototyping:** 3D Printing, CNC Router, Water Jet, Sheet Metal Forming, Casting
- **Programming:** Matlab, C/C++, Python
- **Electronics:** Arduino, Raspberry Pi, Particle

## Availability

- Summer 2018, Spring, 2019, Summer 2019