

# Henrietta Ford

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## EDUCATION

### **University of Illinois at Chicago (UIC)**

Expected: May 2018

Bachelor of Science in Industrial Engineering

Minor: Mechanical Engineering

Major GPA: 3.10/4.00

Relevant Coursework: Manufacturing Process Principles, Dynamic Systems and Control, Engineering Materials

## SKILLS

**Computer:** C/C++, C#, MATLAB, SolidWorks, AutoCAD, Pro/Engineer, Excel, Word, PowerPoint

**Technical:** Data analysis, tool design, process planning, process development, quality control, cost control

## INTERNSHIPS

### **BorgWarner, Frankfort, IL**

January 2017-August 2017

*Manufacturing Engineering Intern (Co-Op)*

- Supported advanced manufacturing process development; conducted process development studies
- Analyzed data in Excel, and prepared poster and PowerPoint presentation materials
- Developed lean standards and processes; reported progress ideas to engineering team at bi-weekly staff meetings
- Utilized AutoCAD to assist with designing prototype builds for manufacturing robots
- Collaborated on developing a value stream mapping process

### **Additive Manufacturing Lab, UIC, Chicago, IL**

June 2015-August 2015

*Research Intern*

- Selected as a summer research intern for the competitive UIC Freshman Engineering Internship Program (GPIP)
- Investigated how to eliminate stair-case effect in AM fabricated parts
- Explored a hybrid manufacturing process by researching different approaches and AM technologies
- Conducted literature reviews to determine possible approaches and assisted with creating experimental design

## PROJECTS

### **Ionized Dust Control System**

Sept. 2017 – Present

Senior Design Project, Mechanical & Industrial Engineering Department, UIC

- Collaborate on a team of four to develop solutions to manage dust build-up in plant settings
- Conduct research to identify typical factors for dust accumulation, where/why dust accumulates, etc.
- Research different products that could remove dust and improve overall air quality
- Present research findings, recommendations, and final product at UIC Senior Design Expo in April 2018

### **Pancake Flipper Design**

Fall 2016

- Tasked with an in-class assignment to develop a device to flip a pancake
- Created a design for a prototype of a pancake flipper using SolidWorks
- Determined possible design flaws and created modified drawings to account for potential deficiencies
- Presented project design to class via PowerPoint presentation

## PROFESSIONAL AFFILIATION

### **Society for Women in Engineering (SWE), UIC, Chicago, IL**

Sept. 2014 - Present

*Member*

- Volunteer at SWE events to promote women in STEM; e.g. admissions events, high school science fairs, etc.
- Assist with coordinating annual Engineering Week activities such as movie nights, game nights, and guest speakers

## VOLUNTEER

### **Bank of America Chicago Marathon, Chicago, IL**

October 2014, 2015, 2016, 2017

*Volunteer*

- Helped with day-of event activities such as distributing water, guidance with course map, and cheering on runners
- Assisted with packet/bib pick-up day at Navy Pier; helped prepare volunteer credentials