

**ELLIOT M. BUSTA**  
**Grand Rapids, MI**  
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**EXPERIENCE**

Mechanical Design Engineer I – *Gentex Corporation, Zeeland, MI* 10/2017 - Present

- Designed/modeled dozens of interior and exterior plastic (injection molded), glass (laser cut), foam (die cut), metal (cast), and PCB automotive mirror components, with production volumes up to 1M units/yr
- Created/updated 100+ engineering drawings, using tolerance stackups to drive GD&T
- Used FEA to analyze component stress/strain and assembly interactions
- Conducted DFMEA and DRBFM design reviews for every component to drive holistic component analysis at conception, both internally and with OEM's
- Prototyped designs for rapid testing using mills, saws, sanders, sonic knives, 3D printing, etc.
- Design for manufacturing experience - worked closely with manufacturing to optimize new designs, processes, and equipment associated with new product launch
- Inventor on patent application for new rearview mirror construction
- Selected to travel to Japan to work with OEM on product placement in vehicle

Group Leader – *Gentex Corporation, Zeeland, MI* 10/2016 - 10/2017

- Managed a team of 25 employees, coaching reports to improve both themselves and the manufacturing process
- Developed leadership style based on 1-on-1 relationships, clear explanation of company direction, and setting challenging but attainable goals
- Facilitated communication between direct manufacturing staff and the engineering/quality teams
- Mediated team issues to maintain a positive work atmosphere
- Worked with shift counterparts to develop new waste reduction and quality detection processes

Production Support Engineer – *Gentex Corporation, Zeeland, MI* 04/2016 - 10/2016

- Oversaw production line to help bring its production up by 16% over 6 months
- Resolved team member conflicts
- Drove 2x quality and cycle time improvement projects

Research Assistant – *University of Wisconsin – Madison, Madison, WI* 09/2013 - 12/2015

- Researched cold spray material deposition technique, which has applications in the aerospace, nuclear, automotive, and additive manufacturing spaces
- Performed SEM, XRD, hardness, corrosion, and optical microscopy analysis of samples
- Presented at 2014 North American Cold Spray Conference

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**EDUCATION**

***University of Wisconsin – Madison***

Bachelor of Science – Materials Engineering

December 2015

Certificate in Computer Science, Emphasis in Polymer Engineering

Senior Project: Analysis of the Solid-Electrolyte Interphase Layer in Lithium-Ion Batteries

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**SKILLS**

- Spanish, Fluent. Learned while living in Madrid, Spain for 1 year, and developed competency with business level conversation during a 2.5yr internship with CT Ingenieros.
- Japanese, Basic. Learned in classes at Gentex Corporation and utilized in travel to Japan.
- Software proficiencies: CATIA, SolidWorks, Java, Python, Keyence 3D Measurement System, SmartSheets, Microsoft Word, Excel, PowerPoint

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**HOBBIES/VOLUNTEER ACTIVITY**

- Sailing – UW Collegiate Sailor, UW Sailing Team National Contender, Newport-Bermuda Class 4 Winner, Melges 24 National Contender
- Mountain biking, bicycle repair, hiking, camping
- Holland Middle School Volunteer
- West Michigan Land Conservancy Volunteer