

# Edward A. Marcheselli

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## EXPERIENCE

### Bastian Solutions - Toyota - Project Engineer

- Managed custom product development from design through manufacturing to produce novel equipment
- Coordinate Bastian Solution's R&D products transition to manufacturing to meet product reveal deadlines
- Oversee multi-discipline team of mechanical, electrical, and software engineers to complete design, development, and integration
- Act as liaison between customer and internal design, manufacturing, and management teams
- Maintain project financials, schedules, and KPI reports
- Communicate project's status to internal and external stakeholders
- Develop team process improvements and power BI reports resulting in increased efficiency

Greenfield, Indiana  
October 2021-Current

### AIR Worldwide - Verisk - Mechanical Engineer R&D

- Five-month internship, in-depth catastrophe modeling for terrorism scenarios in urban environments.
- Modeled cities in CAD and performed a blast simulation of the surrounding buildings within BlastFOAM
  - Forked and customized computational fluid dynamics (CFD) software: OpenFOAM, BlastFOAM
  - Created a literature review by collecting academic research to validate the catastrophe models
  - Created a database of previous terrorism attacks with resulting building damage and human injury
  - Collected Department of Defense blast data to compare scaled blast results

Boston, Massachusetts  
April 2020 - August 2020

## PROJECTS

### Amazon Item Singulator - Bastian Solutions

- Co-managing \$64 million custom sortation machinery program produced at volume
- Managed installations and customer relations for sites across the United States

Greenfield, Indiana  
October 2021 - Current

### Autonomous Mini Load - Bastian Solutions

- Managed the transition to manufacturing of Bastian Solutions' miniload AGV
- Lead efforts between R&D and Manufacturing to prepare for volume production and market release
- Managing initial six months of production for \$60 million program

Greenfield, Indiana  
October 2022 - Current

### AISIN Automated Storage and Retrieval System - Bastian Solutions

- Managing fully autonomous multi crane storage system to increase efficiency and storage density

Greenfield, Indiana  
February 2023 - Current

### Autonomous Forklift - Bastian Solutions

- Helped to develop company standard process for transitioning R&D products to manufacturing
- Managed the redesign and engineering release of Bastian Solutions' autonomous forklift product

Greenfield, Indiana  
June 2022 - October 2022

### GE Healthcare Pack-Out Line - Bastian Solutions

- Managed engineering study to develop an automated packaging line for hospital equipment

Greenfield, Indiana  
April 2022 - October 2022

## SKILLS

Microsoft Project	Product Development	Python	Project Financials
Solidworks	Project Management	Javascript	Embedded Systems
CATIA V5	Power BI	MATLAB	Troubleshooting
Process Design	Microsoft Dynamics	LabView	MS Excel
Process Improvement	CRM	SQL	CI/CD
Kaizen	Electromechanics	Bash	Git

## EDUCATION

Purdue University - West Lafayette  
Bachelor of Science in Mechanical Engineering, Minor in Psychology

West Lafayette, Indiana  
May 2021

Massachusetts Institute of Technology xPRO  
Full Stack Development with MERN

Remote  
November 2023

## CERTIFICATES, AWARDS & WEBSITES

- Fundamentals of Engineering - NCEES - Credential ID ET32100145
- Purdue University Mechanical Engineering Senior Design 1st Place
- Github: [github.com/edwardmarcheselli](https://github.com/edwardmarcheselli)

August 2021  
May 2021