

HARPER RODRIGUEZ

Senior Mechanical Engineer

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☎ (123) 456-7890

📍 Natick, MA

🌐 [LinkedIn](#)

WORK EXPERIENCE

Senior Mechanical Engineer

MathWorks

📅 2020 - current

📍 Natick, MA

- Established strong relationships with key suppliers with the help of Autopilot, resulting in a 14% reduction in material lead times
- Identified and mitigated potential design risks using RiskOptics, which led to a 47% reduction in post-launch issues and recalls
- Led the development of three new products from concept to production, contributing to a 17% expansion of the product portfolio
- Resolved complex technical issues, **reducing product defects by 29%** and enhancing product reliability

Lead Mechanical Engineer

General Electric

📅 2017 - 2020

📍 Boston, MA

- Oversaw the training and development of seven engineers, **with 97% of them advancing to higher roles within the company**
- Implemented lean manufacturing principles, leading to a 20% reduction in production time
- Collaborated with cross-functional teams on Notion to improve design integration, which resulted in an 18% reduction in design-related delays
- Championed Intellect QMS quality control processes leading to a 30% decrease in product defects

Principal Mechanical Engineer

Raytheon Technologies

📅 2014 - 2017

📍 Waltham, MA

- Engineered a robotic assembly line for consumer electronics, reducing assembly errors by 29%
- Spearheaded a AutoCAD process optimization initiative, which resulted in a 26% reduction in production cycle time
- Guided a team of 11 engineers to develop a next-generation HVAC system, resulting in a 23% increase in energy efficiency
- Pioneered the integration of Fusion 360 simulation **that led to a 40% decrease in prototype iterations**

EDUCATION

Bachelor of Science

Mechanical Engineering

Massachusetts Institute of Technology

📅 2010 - 2014

📍 Cambridge, MA

SKILLS

- SolidWorks
- Autodesk Inventor
- ANSYS
- Abaqus
- ANSYS Fluent
- OpenFOAM
- PTC Windchill
- Siemens Teamcenter
- MATLAB
- LabVIEW

CERTIFICATIONS/ LICENSES

- Professional Engineer (PE)