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## Professional Summary

Highly motivated Mechanical Engineer with 6 years of experience in designing, testing, and optimizing mechanical systems and components. Skilled in CAD design, finite element analysis (FEA), and project management, with a proven track record of improving system efficiency and reducing costs. Adept at collaborating with cross-disciplinary teams to deliver innovative engineering solutions on time and within budget.

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## Skills

- **Design Tools:** AutoCAD, SolidWorks, CATIA, and Siemens NX.
  - **Analysis Tools:** ANSYS, MATLAB, and COMSOL Multiphysics.
  - **Manufacturing Processes:** CNC machining, 3D printing, and injection molding.
  - **Project Management:** Agile methodology, MS Project, and budgeting.
  - **Additional Skills:** HVAC systems, thermodynamics, and root cause analysis.
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## Professional Experience

### Mechanical Design Engineer

**Innovative Machinery Inc.**, Houston, Texas, USA

*March 2020 – Present*

- Designed and developed custom mechanical components, reducing production costs by 15%.
- Conducted FEA simulations to validate structural integrity under extreme conditions.
- Led a team to develop an automated assembly line, increasing production speed by 20%.
- Collaborated with suppliers to source high-quality materials, improving product durability.

### Junior Mechanical Engineer

**GreenTech Solutions Ltd.**, Dallas, Texas, USA

*July 2017 – February 2020*

- Supported senior engineers in the design of renewable energy systems.

- Performed thermal and fluid simulations to optimize heat exchangers.
  - Prepared technical documentation and provided training for maintenance teams.
  - Assisted in the installation and commissioning of HVAC systems for commercial buildings.
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## Education

### Bachelor of Science in Mechanical Engineering

University of Texas at Austin, USA

*Graduated: 2017*

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## Certifications

- Certified SolidWorks Professional (CSWP).
  - Certified HVAC Designer (ASME).
  - Lean Six Sigma Green Belt.
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## Languages

- English: Native
  - Spanish: Intermediate
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## Projects

- **Automated Conveyor System:** Designed a conveyor system for a logistics company, increasing throughput by 25%.
  - **Wind Turbine Design Optimization:** Conducted blade shape optimization, resulting in a 10% increase in energy output.
  - **Eco-Friendly HVAC System:** Developed a low-energy HVAC solution for a residential building project.
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## Interests

- Renewable energy technologies.
- Robotics and automation.
- Volunteering in STEM education programs.