



# Aditya Foley

## Mechanical Engineer/Designer

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### SUMMARY

Mechanical engineer with over 5 years of experience in product design and engineering, especially skilled in 3D CAD modeling and prototype development. Proven ability to collaborate effectively with cross-functional teams, particularly in the automotive sector. Expertise in application of advanced engineering techniques like injection molding and aluminum fabrication enhances product functionality and efficiency. Consistently delivers high-quality designs that meet strict safety and performance standards. Committed to leveraging innovative solutions to improve processes across all phases of product development.

### STRENGTHS

- Innovative Problem Solving**  
Proven aptitude in approaching complex engineering problems holistically, fostering innovative approaches in teams.
- Team Collaboration**  
Established trustful relationships among diverse team members, gaining recognition as a go-to for collaborative outputs.
- Advanced CAD Modeling**  
Utilized leading CAD software to design accurate parts, increasing design precision and reducing errors.
- Testing & Prototyping**  
Executed thorough testing protocols yielding actionable insights, vital for enhancing product performance levers.
- Effective Communication**  
Clarified complex ideas succinctly to stakeholders, improving understanding and moving projects forward seamlessly.

### SKILLS

3D CAD (Solidworks)

3D CAD (UG NX)

Prototype Development

Injection Molding Cost Estimation

Product Testing & Evaluation

Strong Communication Skills

Aluminum Fabrication

Plastic Extrusions Thermoforming

### EXPERIENCE

#### Mechanical Engineer

Innovative Design Solutions [📅 January 2023 - Present](#) [📍 Chicago, IL](#)

Serves as the lead mechanical engineer focused on designing cutting-edge automotive components using advanced 3D CAD techniques. Collaborates with diverse manufacturing teams, ensuring designs are feasible while keeping efficiency in mind.

- Spearhead design initiatives for new automotive components incorporating functional requirements and aesthetic values.
- Engage actively with production teams to evaluate manufacturability, often modifying workflows for optimal results.
- Supervise prototype development, executing tests that ensure products align with safety and performance benchmarks.
- Fully analyze testing results, refining engineering designs for improved reliability and user satisfaction.
- Conduct comprehensive competitor analysis quarterly, shaping strategies for superior product market positioning.
- Compile detailed project reports that facilitate transparency around cost estimates, resource needs, and timelines.

#### Mechanical Designer

Creative Engineering Group [📅 June 2019 - December 2022](#) [📍 Peoria, IL](#)

Designed and engineered consumer products focusing on maximizing both user experience and manufacturability in an innovative team environment.

- Engineered consumer-friendly products by utilizing Solidworks for intricate part modeling and assembly workflows.
- Collaborated with fabrication teams to address real-time design challenges during production runs.
- Contributed to enhancing custom training sessions for tools and software, significantly bolstering team efficiency.
- Regularly updated progress and strategic plans in weekly meetings, fostering transparent communication within the group.
- Assured substantive documentation adhering to industry standards kept each project organized and compliant.
- Participated in brainstorming sessions aimed at identifying unmet needs in the market for upcoming projects.

#### Junior Mechanical Engineer

Engineering Innovations Inc. [📅 May 2016 - May 2019](#) [📍 Naperville, IL](#)

Supported senior-level engineers in various mechanical design tasks focusing on precise execution and detailed documentation.

- Aided in the research and integration of new materials into development projects, enhancing overall product viability.

## Sheet Metal Stamping

Mechatronics Material Selection

CFD Simulation

Design Standards Compliance

R&D Processes

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Mechanical Engineer at Innovative Design Solutions (3.4 Years)

● Mechanical Designer at Creative Engineering Group (3.5 Years)

● Junior Mechanical Engineer at Engineering Innovations Inc. (3 Years)

- Drafted technical reports and presentations tailored for stakeholder review, facilitating decision-making processes.
- Contributed to design of complex components through continuous learning about modern CAD methodologies and practices.
- Drove engagement in teamwork exercises, which cultivated a collaborative environment focused on troubleshooting and innovation.
- Ensured compliance with safety regulations through maintenance of a clean, organized workspace in laboratory settings.
- Participated intensively in feedback loops regarding current prototypes, allowing designs to benefit from collective insights.

## LEADERSHIP & AWARDS

- Certified SolidWorks Professional (CSWP) - 2022
- Six Sigma Green Belt - 2021

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

University of Illinois 🎓 GPA: 3.5 📅 2016 📍 Urbana-Champaign, IL

**Coursework:** *Thermodynamics, Fluid Mechanics, Material Science, Structural Analysis*

## CERTIFICATIONS

- Certified SolidWorks Professional (CSWP) 📅 2022
- Six Sigma Green Belt 📅 2021

## TECHNICAL SKILLS

- **CAD Software:** SolidWorks, UG NX, AutoCAD
- **Prototyping Tools:** CNC Machining, 3D Printing, Injection Molding
- **Analysis Tools:** MATLAB, ANSYS, COMSOL Multiphysics
- **Project Management Software:** JIRA, Trello, Asana
- **Quality Control Methods:** FMEA, SPC, Lean Six Sigma
- **Manufacturing Techniques:** CNC Machining, Sheet Metal Stamping, Additive Manufacturing
- **Collaboration Tools:** Slack, Microsoft Teams, Zoom
- **Testing Equipment:** Load Testing, Pressure Testing, Thermal Imaging
- **Technical Documentation:** GD&T, ISO 9001, ASME Y14.5
- **Research Methodologies:** Market Research, Competitor Analysis, User Testing

## PROFESSIONAL AFFILIATIONS

- Member, American Society of Mechanical Engineers (ASME)
- Volunteer, Society of Automotive Engineers (SAE), National Chapter

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST