

# ANDRES PAYNE

## MECHANICAL DESIGN ENGINEER

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### STRENGTHS

- Innovative Problem Solver**  
Developed unique solutions under tight deadlines, forging innovative paths for complex design challenges. Navigated project roadblocks smoothly.
- Cross-Functional Collaborator**  
Engaged with diverse teams aligning goals, consistently achieving unified project outcomes. Became trusted resource for problem-solving.
- Technical Communication Expert**  
Designed comprehensive technical documents improving clarity for both engineers and clients, enhancing team collaboration. Often commended for breaking down complex concepts.
- Regulatory Compliance Advocate**  
Ensured project adherence to federal and state regulations efficiently, which secured continued approvals throughout project lifespans. Frequently liaised with inspectors.
- Skilled CAD Designer**  
Produced compelling 3D models using Autodesk Inventor, showcasing lowered redesign costs and faster iteration cycles as a result of improved workflows.

### SKILLS

Mechanical Design

Project Management

Regulatory Compliance

Technical Documentation

Autodesk Inventor

### SUMMARY

Creative Mechanical Engineer fostering innovation in prototype development for advanced commercial appliances. Collaborating closely with cross-functional teams, ensuring that designs not only comply with industry standards but also meet customer needs. Experienced in managing timelines, developing comprehensive technical documentation, and providing essential support to field sales teams. Passionate about delivering high-quality, reliable products through rigorous testing. Engages actively with regulatory agencies to maintain compliance and streamline workflows. Strong ability to leverage 3D CAD software such as Autodesk Inventor to translate concepts into functional designs.

### EXPERIENCE

#### Mechanical Engineer

Tech Innovations Inc. March 2023 - Present Chicago, IL

Lead mechanical engineering efforts on design initiatives for advanced appliance systems. Key responsibilities include facilitating innovative projects, interacting with stakeholders, and ensuring technical accuracy in documentation and designs.

- Directed development of groundbreaking components for dishwashing systems, driving enhanced performance metrics.
- Coordinated multiple project teams, balancing diverse priorities and keeping timelines aligned with stakeholder expectations.
- Collaborated with sales teams to troubleshoot equipment issues, minimizing operational disruptions for clients.
- Executed extensive testing protocols on mechanical designs, leading to significant improvements in reliability scores.
- Maintained detailed technical documentation guiding operational practices and best design protocols.
- Leveraged Autodesk Inventor for efficient 3D modeling, accelerating overall design processes.

#### Junior Mechanical Engineer

GreenTech Appliances January 2021 - February 2023 Chicago, IL

Supported various engineering projects with a focus on sustainable design solutions, effectively addressing client demands while enhancing product efficiency and compliance with regulations.

- Contributed significantly to the design of energy-efficient water heating systems aligned with company sustainability goals.
- Assisted project managers in developing clear objectives, streamlining execution schedules for new product launches.
- Engaged with regulatory bodies, ensuring all designs met safety and quality assurance standards.
- Provided ongoing technical support and training to field representatives, promoting superior customer satisfaction.
- Created user-friendly manuals and guides that simplified operation, enhancing the customer experience.
- Collaborated across disciplines to foster innovation initiatives aimed at improving product usability.

### LEADERSHIP & AWARDS

- Certified SolidWorks Associate (CSWA) – 2022
- Autodesk Inventor Certified Professional – 2023

3D CAD Modeling

Electrical Circuit Troubleshooting

Communication Skills

Prototype Development

Field Support

Assembly Procedures

Innovation Techniques

Quality Assurance Product Testing

Time Management

## LANGUAGES

English Native

Spanish Proficient

## MY CAREER



- Mechanical Engineer at Tech Innovations Inc. (3.2 Years)
- Junior Mechanical Engineer at GreenTech Appliances (2.1 Years)

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

University of Illinois 🎓 GPA: 3.5 📅 2021 📍 Champaign, IL

**Coursework:** Thermodynamics, Fluid Mechanics, Dynamics, Manufacturing Processes

## CERTIFICATIONS

- Certified SolidWorks Associate (CSWA) 📅 2022
- Autodesk Inventor Certified Professional 📅 2023

## TECHNICAL SKILLS

- **CAD Software:** Autodesk Inventor, SolidWorks, CATIA
- **Mechanical Engineering Principles:** Force Analysis, Load Calculations, Energy Distribution
- **Regulatory Standards:** NSF, CSA, UL
- **Documentation Techniques:** Technical Manuals, User Guides, Specification Sheets
- **Material Knowledge:** Plastic Fabrication, Sheet Metal Design, Thermoplastics
- **Energy Systems:** Hydronic Systems, Heat Pumps, Renewable Heating
- **Testing Methodologies:** Performance Testing, Quality Checks, Safety Assessments
- **Communication Platforms:** Microsoft Teams, Slack, Zoom
- **Project Management Tools:** Asana, Trello, JIRA
- **Field Inspection Techniques:** On-Site Assessments, Equipment Monitoring, Compliance Reviews

## PROFESSIONAL AFFILIATIONS

- Member of the American Society of Mechanical Engineers (ASME)
- Active participant in Green Building Council initiatives

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST