

## **EDGAR HILL**

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### **Mechanical Engineer**

Dedicated Mechanical Engineer with R&D experience designing products for companies ranging from start-ups to world-wide manufacturers. Proficient in using state-of-the-art tools and methods, certified in welding processes and equipment. Solid leadership and applied knowledge to competently communicate with external and internal customers and corporate stakeholders. Bilingual English and Spanish.

#### **Experience**

**ABC Inc – Main Town, ST** May 2013 – April 2019

##### **Mechanical Hardware Engineer**

Ink-jet printer design, most recently on the PageWide A3 Color MFP family of products. Worldwide travel to support product prototype builds at manufacturing sites. Paper path and finisher design and development:

- Injection-molded plastic, machined metal and sheet-metal part and assembly design.
- Solid modeling & 2-D drafting documentation using PTC Creo.
- Use of ANSI/ASME Y14.5 GD&T to communicate tolerance & inspection requirements.
- Coordination and approval of production part first article & Cpk metrology inspections.
- Prototyping of designs using local Model Shop and 3D-printing resources.
- Creation of test and assembly fixturing.
- Test and characterization of components and assemblies to quantify failure, including accelerated life, fatigue, environmental.
- Collaboration with EEs, firmware engineers, technicians & test operators in the design, troubleshooting & resolution of issues.
- Collection and inspection of servo metrics and test data from local and remote locations
- Troubleshooting of test-related issues to root cause and solution implementation.
- assist with serviceability testing and documentation for release with new product.
- Coordination of product dynamic shock and vibration / drop testing to reduce failures in shipping and handling.
- Perform FEA analyses to identify and resolve part weaknesses.
- Product support and customer interaction at delta test sites.

**ABC Company** Nov 2010 – May 2013

##### **Mechanical Engineer**

Contract employee at ABC, in ink-jet printer design. Roles and responsibilities essentially identical to those listed above.

#### **Education and Certification**

Bachelor of Science, Mechanical Engineering  
State University  
Fundamentals of Engineering (EIT) Exam