

MECHANICAL ENGINEER

Dedicated professional with rich educational experience in mechanical engineering. Dynamic emerging leader, driven by new challenges and able to navigate complex projects.

AREAS OF EXPERTISE

- **SolidWorks CAD:** Certified SolidWorks user with 2 years' experience in 3D modeling, drafting, and assemblies.
 - **Project Management:** Experience in product development, scheduling, budgeting, and equipment procurement.
 - **3D Printing:** Championed resolutions for various 3D printing challenges, including optimal settings for producing viable models, developed automated plastic hardening process for 3D printer, and printer maintenance.
 - **Mechatronics:** Developed a wearable bench-press aid to monitor lifting form, programmed a Segway robot to balance for 14 minutes, and designed a formula hybrid subsystem to coordinate race car electrical systems.
 - **Mechanical Design:** Conceptualized the transmission system on a prototype [REDACTED], and implemented the brake/throttle functionality for the electric motor on hybrid race car.
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EDUCATION

Bachelor of Science, Mechanical Engineering, [REDACTED], NY, May 2016

SolidWorks Mechanical Design Associate Certification (CSWA), June 2016

PROFESSIONAL EXPERIENCE

[REDACTED], Syracuse, NY, February 2017 – October 2017

Prototyping Engineer

Devised and executed prototyping projects under budget and ahead of schedule through strong communication and use of effective project controls.

- Designed and implemented an automated emergency shutdown system for rapid prototyping equipment which increased workflow by 5% and decreased expenses by 3%.
- Utilized testing and validation methods for multiple products, and made product development recommendations based on results.

[REDACTED], Campbell Hall, NY, August 2016 – December 2016

Engineering Technician

Role responsibilities included estimating activity duration, scheduling project activities, and developing project plans.

- Quality control field tester on asphalt paving projects.
- Repeated success on multiple projects, with a 95% success rate on meeting strict DOT requirements.
- Created on-the-fly process improvements using real-time test results.

[REDACTED], Troy, NY, September 2014 – May 2016

Subsystem Leader

Led all phases of subsystem development on multiple projects across company.

- Managed all aspects of development for [REDACTED] project, including planning, product development, project scheduling, budgeting, and procurement of equipment.
- Designed four-bar linkage for brake and throttle to send accurate inputs to the electric motor, and authored all subsystem design reports.

