

Nathan Ryley Tharp

Entry Level Mechanical Engineer

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SUMMARY

Performance driven recent mechanical engineering graduate with years of diligent work experience and passionate about product development, efficient manufacturing, and the future of technology; seeking a new opportunity.

SKILLS

Leadership	Project Management	SolidWorks, Creo, Inventor
Teamwork	Finite Element Analysis	ANSYS, MATLAB, LabVIEW
Communication	Professional Presentations	Microsoft Office Suite
Adaptability	Technical Report Writing	Python, C++

EDUCATION

University of Texas at Tyler, Graduation Date: May 2, 2020

Bachelor of Science in Mechanical Engineering

EXPERIENCE

University of Texas at Tyler (Tyler, TX)

Engineering Team Lead – Robotic Walking Training Device

- An electro-mechanical rehabilitation device was designed and optimized using CAD modeling software resulting in an effective and adaptive medical apparatus which could aid patients with spinal cord injuries
- Verified customer specifications using finite element analysis (FEA) in SolidWorks and ANSYS and led a design review showing that the product exceeded requirements by nearly 200%
- Effective communication, implementation of six sigma methodology, and an excellent teamwork resulted in the project being completed on schedule and 30% under budget

Engineering Team Lead – Powered Lift

- Designed with SolidWorks to be robust in order to lift the maximum amount of weight; this was achieved, and it won in competition against 10 teams for capacity, design, and quality
- Project remained within budget and ahead of schedule due to effective project management
- Costs were kept low by networking with vendors and using the individual strengths of the team members

Engineering Team Lead – Walking Robot

- Designed, assembled, and wired a 6-legged walking robot for both speed and agility which earned 1st place in competition against 8 teams by traversing a course the fastest
- Completed project 1 month ahead of schedule due to excellent team coordination, allowing for further optimization and providing the edge necessary to overcome the design of other teams

Centene Corporation (Tyler, TX)

Advanced Claims Analyst

- Used Microsoft Office to analyze payments of medical insurance claims often exceeding \$1,000,000 daily
- Completed claims up to 3x faster than others in the department while maintaining greater than 99% accuracy

MotoPhoto Portrait Studio and Photo Lab (Tyler, TX)

Lead Lab Technician

- Maintained high volume industry grade printers, ensuring continued function and productivity
- Performed meticulous quality assurance on all customer projects, leading to community trust and repeat business for this small company and resulting in annual profits of more than \$300,000

21st Century Systems (Katy, TX)

Installation Technician

- Installed high performance home theater systems with budgets for the projects often exceeding \$50,000
- Wired and installed various integrated devices and trained customers on both operation and maintenance