

# Nathan Ryley Tharp

## Mechanical Design Engineer

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Motivated Mechanical Design Engineer with three years of professional experience, a strong educational foundation, and a keen interest in developing innovative solutions. Adept at utilizing design tools, software development skills, and efficient design techniques. Seeking to leverage my expertise in mechanical design, engineering tools, and project coordination to contribute to agile aerospace and defense technology initiatives.

### Skills

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- SolidWorks
- AutoCAD
- Mechanical Design
- Geometric Dimensioning & Tolerancing
- Project Coordination
- Technical Documentation

### Work History

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#### **Programmer Analyst**, 10/2022 to Current

##### **The University of Texas at Tyler** – Tyler, TX

- Created 17 unique SQL queries in the PeopleSoft PIA for users in a variety of departments within Campus Solutions, reducing time spent on a single task by up to 3,000%.
- Created 9 applications using PeopleSoft Application Designer, reducing time spent on producing reports from days down to minutes, and from thousands of individual tasks down to a handful.
- Tested and optimized SQL queries using Oracle SQL Developer for eventual implementation in future projects or to quickly identify and respond to questions or concerns presented by users.

#### **Associate Engineer**, 09/2021 to 07/2022

##### **TechServ Engineering & Consulting, LTD.** – Tyler, TX

- Managed and designed 12 major electric utility projects in West Texas and 20+ projects in North Texas.
- Employed AeGIS software to create over 180 detailed electric distribution drawings.
- Prepared and submitted governmental documents for permits, including easements, county road, state highway, and transmission distribution plans.

#### **Project Engineer**, 07/2020 to 02/2021 and **Application Engineer**, 02/2021 to 09/2021

##### **HVAC Manufacturing and Technology** – Athens, TX

- Collaborated with interdisciplinary team to create workflows and technical drawings.
- Generated over \$1,000,000 in HVAC equipment and component sales for residential and commercial buildings.
- Managed projects from inception to completion, ensuring technical documents, specifications, budgets, and timelines were met.

### Education

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#### **University of Texas at Tyler, Tyler, TX** – 05/2020

Bachelor of Science – Mechanical Engineering, GPA: 3.4