

# MICHAEL McELROY

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## Education

**The University of Texas at Austin**

**Aug. 2025 – Present**

*Bachelor of Science in Electrical and Computer Engineering*

*Austin, TX*

## Relevant Coursework

- Binary Datatypes & Arithmetic
- Bitwise Operations
- Assembly Programming
- Integral and Multivariable Calculus
- Circuit Design
- Circuit Analysis

## Work Experience

**City Of Live Oak**

**June 2024 – August 2025 (Seasonal Role)**

*Head Lifeguard*

*Live Oak, TX*

- Supervised patrons and co-workers to ensure a safe environment at the pool.
- Performed regular chemical checks and maintenance duties to allow the continuous function of the facilities.
- Handled customer complaints and resolved conflicts when they arose.
- Pool Manager: Courtney Weese [cweese@liveoaktx.net](mailto:cweese@liveoaktx.net)

## Projects

**Chess Client & Solver** | *Java, JavaFX, CSV, Aseprite*

**July 2025**

- Developed a chess application using Java and the JavaFX framework to develop a user-friendly client.
- Implemented bitmasking and bitwise operations to handle the identification and position of pieces on the board.
- Created a simple solver algorithm to allow for single-player play.
- Used Aseprite to design the board and pieces with a comfortable aesthetic.

**Radio-Controlled Airplane** | *Circuit Design, Solidworks CAD*

**March 2024**

- Built a hot-wire foam cutter that used resistive heating to melt styrofoam to shape.
- Used Solidworks CAD to design and model an airfoil for the plane's wings.
- Wired the flight controller, battery, and control servos in order to allow for flight.

## Technical Skills

**Languages:** Python, Java, C, C++, HTML/CSS, JavaScript

**Developer Tools:** VS Code, Eclipse, CLion, Solidworks, KiCad, LTSpice

**Technologies/Frameworks:** Linux, PyTorch, Git, GitHub, JavaFX, WordPress

## Leadership / Extracurricular

**High School Rocketry Club**

**2023 – 2025**

*Vice President & Treasurer*

*Samuel Clemens High School, Schertz, TX*

- Led various teams through the construction and launch of several rockets.
- Started campaigns to raise and subsequently managed several thousand dollars of club funds.