

# Austin Miller

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## EDUCATION:

**Southern Methodist University** Dallas, TX

Date: May 2021

- Majors: Computer Science and Mathematics
- Overall GPA: 3.5 | Honor Roll (Fall 2017)

## RELEVANT COURSES:

Principles of Computer Science I  
Introduction to Engineering Design

Data Structures  
Calculus II

Discrete Computational Structures  
Database Concepts

## SKILLS:

- C++ | Python | Java | ARM Assembly | MS Windows | Mac OS | Microsoft Office
- Arduino | Adobe Premiere, Acrobat, Illustrator | Fusion Autodesk 360 | Proficient in Spanish

## ENGINEERING PROJECTS:

### **KNW 2300 Robot Design Challenge:**

- Designed an autonomous robot that was capable of navigating across a varied terrain obstacle course for a fictitious NASA mission
- Developed the software that allowed our robot to move on its own utilizing ping sensors
- Implemented the Arduino Uno programs that raised a temperature probe 125cm from the ground
- Reviewed the overall electrical wiring of the robot
- Collaborated with other engineers throughout the entire design and build process

### **Data Structures Search Engine Project:**

- Designed a search engine with an inverted file index that could search through all of the Supreme Court cases
- Implemented both a self-balancing AVL Tree and a Hash Table to store document data persistently
- Utilized a document parser, query processor, relevancy ranking, and user interface for functionality and ease of use

## EXPERIENCE:

### **Diocese of West Texas - Camp Capers, Cabin Counselor, Waring, TX**

Summer 2018

- Lead 10 campers a week in my cabin through daily activities
- Assisted children ages 8-18 in daily activities ensuring they had a worthwhile experience
- Worked with a different volunteer counselor weekly to train younger counselors
- Coordinated with other Summer Staff to create an enjoyable experience for all campers

### **Diocese of West Texas - Camp Capers, Work Crew, Waring, TX**

Summer 2017

- Assisted in preparation of all meals for Camp Capers Summer Camp
- Maintained and managed the facilities of Camp Capers
- Organized and took inventory of the camp-wide food supply
- Coordinated with other Work Crew members to streamline efficiency

## ACTIVITIES:

### **Mustang 11, Executive Advisor (2017-Present)**

- Student lead spirit group that attends all home football games and promotes spirit within the SMU community

### **Kappa Sigma Fraternity, IFC Representative, Risk Manager (2018-Present)**

- IFC Representative - Liaison between the Kappa Sigma Fraternity, IFC Council, and SMU
- Risk Manager – Manages and advises all committees in the fraternity to mitigate all kinds of risk

### **TMI Corps of Cadets, Company Commander, Color Guard, Cannon Crew**

- Lead a company of 30 cadets, coordinated and oversaw all operations, and was an integral part of the leadership in the Corps of Cadets

## AWARDS

Dean's Scholar  
Discovery Scholarship Recipient  
Graduation Commencement Speaker – TMI Episcopal 2017