COOPER SHAPARD

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TECHNICAL SKILLS

PROGRAMMING LANGUAGES	Python, C++, JavaScript, C#
WEB DEVELOPMENT	HTML, CSS, React
BACKEND DEVELOPMENT	Go, SQL, Docker
HARDWARE	Verilog, LTspice, ARM Assembly
SPOKEN LANGUAGES	English (Native), Spanish (Working Proficiency), Japanese (Basic Proficiency)

EDUCATION

SOUTHERN METHODIST UNIVERSITY (SMU) | BS in Computer Engineering and Computer Science   DALLAS, TX | **May 2026**
Honors: Hilltop Scholars Program, Distinguished Scholar, Engineering Discovery Scholar, Honor Roll with High Distinction   GPA: 4.0/4.0

JOHNS HOPKINS UNIVERSITY | Summer Engineering Class   BALTIMORE, MD | **Summer 2022**
GPA: 4.0/4.0

RELEVANT COURSES | Microcontrollers and Embedded Systems, Data Structures, Electricity and Magnetism

RESEARCH PROJECTS

X-CANCELING MISR RESEARCH   DALLAS, TX | **Oct. 2023 - Present**
- Collaborate with researchers and staff in the ECE Department of SMU
- Develop **Python** scripts to sort and parse large arrays of data in O(n log n) time
- Present findings verbally to a group of 10 distinguished researchers
- Design test circuits with HDL **Verilog**

ENGINEERING PROJECTS

GAME DEVELOPMENT TEAM   DALLAS, TX | **Apr. 2023 - Present**
- Cooperate with a small group of developers to plan and produce a polished game
- Lead a team of 3 as the head programmer and ensure consistency across code
- Build physics-oriented assets with **OOP** to optimize code usage
- Coded in **C#** through the Unity Engine before configuring to Godot's native **GDScript**

WORK EXPERIENCE

MICROCONTROLLERS AND EMBEDDED SYSTEMS TA — SMU   DALLAS, TX | **Jan. 2024 - Present**
- Oversee 19 students and assist with proper **ARM Assembly** code design
- Debug student programs with **Vim** and manage **Raspberry Pi** hardware bugs
- Evaluate student code and design student-specific helper assignments

FIELD DATA INTERN — CITY OF MIDWEST CITY DEPARTMENT OF ENGINEERING   MIDWEST CITY, OK | **Summer 2023**
- Conducted field data collection and computer data entry of the city infrastructure
- Aggregated data and pitched possible solutions to 12 city management officials
- Reduced system storage space from 6TB to 2TB while doubling the number of entries

LEADERSHIP EXPERIENCE

VICE CHAIR — SMU INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) CHAPTER   DALLAS, TX | **Jan. 2024-Present**
- Manage club resources regarding Electrical and Computer Engineering undergraduates
- Engage with other board members and delegate projects and resources amongst all members

TREASURER — SMU CYBERSECURITY CLUB   DALLAS, TX | **Sept. 2023-Present**
- Elected as the financial manager for the SMU Cybersecurity Club and underwent positional training
- Augmented the club funding by 20% while cutting arbitrary costs by 30%
- Red Teamed for CPTC West (**Cybersecurity** competition) at Stanford University

Hobbies: Stenography, Music (Drums,Guitar,Piano,Array Mbira), Book Folding, Personal Knowledge Management, Reading (Sci-Fi,Psychology), Journaling, Rock Climbing