

## Education

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**Texas State University** - *Bachelor's in Electrical Engineering & Computer Science* **Graduated May 2025**

- ★ Senior Design “**Best Project - Faculty Choice**” award winner for our team’s Android app controlled robotic drawing arm.
    - Programmed **ESP32** with **FreeRTOS** and **WebSocket** communication for real-time control
    - Developed cross-platform mobile interface using **Android** and **Flutter**
    - Applied **Agile Software Development** Methodology to manage team workflow and versioning with **Git**
    - Designed and built custom hardware with **Arduino**, **Raspberry Pi**, and **Embedded Systems**
    - Modeled and simulated analog and digital circuits using **LTSpice**, **MATLAB**, and **PID** Controller logic
    - Designed CMOS logic circuits using **Microwind** for layout and **CMOS design** optimization
    - Coded **object-oriented** applications in **Java**, utilizing **UML** diagrams for system architecture
    - Developed **C++** software and **Python** scripts for data processing and control systems
    - Created virtual environments for development using **Linux** and **VirtualBox**
    - Prototyped and tested physical designs with **3D printing** and iterative fabrication tools
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## Work Experience

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**HEB Pharmacy** - *Pharmacy Technician* **2022 - Present**

- Assisted customers by typing new prescriptions and vaccinations, billing insurances, answering non-medical medication and administrative questions, and finalizing sale of medications.
- Obtained and filled medications, ensuring accuracy of the medication using NDC and photo verification system

**City of Austin, Wireless Communications** - *Radio Technician* **2011 - 2017**

- ★ Regularly assigned to **troubleshoot previously unfamiliar** electronics by relying on my own knowledge and technical research.
  - Performed advanced electronics repair and integration in police, fire, and EMS vehicles
  - Diagnosed and repaired radio systems, mobile data, and 12V power systems
  - Integrated emergency systems including **Tomar**, **Whelen**, **Code 3** siren and lightbar units
  - Installed and troubleshot **Panasonic Arbitrator** video/audio recorders, **Panasonic Toughbook’s**, and **Stalker DSR** radar systems
  - Installed and maintained **Motorola** radios including **XPR 7500**, **XTS 2500**, and **APX 7500**
  - Supported and configured **David Clark Vehicle Intercom** Systems and **Knox** key systems
  - Used **soldering**, **multimeter**, and **oscilloscope** for diagnostics and component-level repairs

**United States Marine Corps** - *Radio Systems Technician* **2006 - 2011**

- ★ Awarded a **personal decoration** for technical expertise and job performance
  - Earned **Microsoft Certified Systems Engineer (MCSE)** certification; managed Windows Server 2003 network including **Exchange Server** email and **VoIP telephone system**
  - Installed and configured **Active Directory** for secure communications support
  - Implemented **Cisco IPICS** to bridge VoIP and radio system communications
  - Monitored network health using **SolarWinds Network Monitor**
  - Performed advanced electronics repair on VHF, UHF, HF, and SATCOM radio systems.
  - Diagnosed and serviced vehicle-mounted radio systems, antennas, and cryptographic devices to ensure secure and reliable tactical communications