

Chester Grudzinski

Fort Worth, TX 76107

817-907-9965 | cwgrudzinski@gmail.com | linkedin.com/in/chester-grudzinski | github.com/generlmoo/

Professional Summary

Computer Engineering graduate with hands-on experience in embedded systems, Linux-based infrastructure, and automation. Developed Python tools reducing manual workflows by 80%, implemented real-time embedded hardware monitoring, and performed recovery of encrypted production systems. Seeking entry-level software or systems engineering roles.

Education

University of Texas at Dallas <i>Bachelor's degree, Computer Engineering (ABET Accredited)</i>	Jan 2021 - Dec 2025
Tarrant County College <i>Associate's degree, Information Technology</i>	Jan 2018 - Dec 2020

Work Experience

Young and Associates Inc. IT Support Specialist - Accounting Firm	Jul 2025 - Present
<ul style="list-style-type: none">Designed FastParse, a Python-based GUI tool that parses bank-issued PDF statements into structured accounting data and imports transactions directly into QuickBooks, eliminating manual preprocessing and reducing reliance on paid third-party applications.Automated depreciation and amortization workflows by developing a Python automation bot for ATX, increasing data-entry throughput from 2.7 to 12.5 accounts per minute and reducing manual errors.Recovered critical financial data from a compromised BitLocker-encrypted NVMe drive, performing forensic-safe imaging, decryption analysis, and full Windows system rebuild to restore business continuity.	
Dallas Formula Racing Systems Engineer - Battery Management System	May 2024 - Dec 2024
<ul style="list-style-type: none">Collaborated with a multidisciplinary engineering team to design a 720 V high voltage battery system with enhanced thermal management, using thermal simulation software and real-time monitoring hardware, which reduced peak cell temperature.Developed a battery management system (BMS) in Altium Designer, applying soldering techniques and embedded-system principles, which produced a functional prototype that passed all electrical safety testsProgrammed and configured Texas Instruments firmware to monitor voltage, current, and temperature using I²C-connected temperature sensors (TMP100), enabling reliable real-time thermal monitoring and early fault detection.	

Projects

Trend Analytics Demo (Express, PostgreSQL, Next.js) TickerTrends	Dec 2025 - Jan 2026
<ul style="list-style-type: none">Built an end-to-end trend analytics system that ingests timeseries data, stores it in PostgreSQL using TypeORM with migrations, and exposes REST APIs for term ingestion, retrieval, and growth-based ranking.Implemented scheduled background refresh (cron) and resilient ingestion logic to handle upstream failures (Cloudflare-blocked responses), enabling reliable “exploding trends” analysis and frontend visualization in Next.js	
Custom 24-bit CPU Architecture in Verilog Computer Architecture	Aug 2024 - Dec 2024
<ul style="list-style-type: none">Designed and implemented a multi-cycle 24-bit processor in Verilog, including ALU, register file, control FSM, and memory interface, with a custom instruction set architecture.Validated functionality through cycle-accurate simulation and waveform analysis, debugging control logic, state transitions, and timing behavior to ensure reliable instruction execution.	
I²C TMP100 on ESP32-C3 Dallas Formula Racing	Apr 2024 - Dec 2024
<ul style="list-style-type: none">Deployed I²C-based temperature monitoring using a TI TMP100 sensor and ESP32-C3, including hardware integration and data collection over embedded firmware.Built a lightweight Wi-Fi HTTP service to expose real-time sensor data for remote monitoring and diagnostics.	

Skills

Systems & Hardware: Linux (Debian), Windows, Networking, SMB/NFS, Cloudflare tunnel, System Monitoring, Automation
Programming Languages: Java, Python, JavaScript, TypeScript, C++
Embedded & Hardware: Embedded Systems (C), PCB Design (Altium), SPI, I²C, UART, Soldering, Oscilloscopes • **Tools:** Git, MATLAB, Verilog, Arduino IDE, Diagnostic Tools