

Max Stopyra

Electrical And Computer Engineer

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255 Woltz Ln, Advance, NC, 27006

Electrical Engineer with expertise in circuit design, system testing, machine learning, and cross-functional collaboration. An Olin Engineering graduate committed to utilize technical skills and innovative problem-solving to promote excellence in electrical systems development.

Work Experience

Machine Learning Engineer

Nov 2024 - Present

[Integrated Solutions International, LLC](#) | Winston Salem, NC

- Developed production-grade mobile computer vision system for Blue Rhino, using Python, TensorFlow Lite, MediaPipe, and MobileNet to automate transaction verification across 28,000+ retail locations, achieving 35% accuracy improvement over baseline
- Designed and developed custom interface PCB enabling seamless Liquid Controls LCR gas meter connectivity to handheld mobile devices and printers through triple-protocol architecture (RS-232, Bluetooth 4.0, Wi-Fi 802.11), reducing measurement data transfer time by 75% and eliminating connectivity errors

Applications Engineering Intern

Jun 2024 - Oct 2024

[Analog Devices](#) | Wilmington, MA

- Research and validate use cases for Gallium Nitride semiconductor technology on CTO's office R&D team
- Use Allegro and Cadence Design Suite to design, layout, test, and fabricate GaN-based power converters for long-term reliability testing of GaN FETs, gate drivers, and controllers

SFQ Circuit Design Engineering Intern

May 2022 - Sep 2022

[MIT Lincoln Laboratory](#) | Lexington, MA

- Use Cadence and Virtuoso to design and test single flux quantum circuitry for use in quantum computing nanosystems
- Create LISP software tools and applied physics to bolster the efficiency of single flux quantum integrated circuit design process

Telematics Test Engineering Intern

Oct 2020 - Aug 2021

[Nissan](#) | Farmington Hills, MI

- Conduct end to end wireless communications tests for R&D on EV telematics systems using TestRail and in-house test software, ensuring efficient functionality for end-users, optimizing OTA system architecture for new EV related infrastructure
- Working with manufacturing, used KiCad, Altium, and SolidWorks to design and improve hardware used in static testing of electromechanical dashboard prototypes and production-level telematics systems

Projects

Aardvark Audio

Aug 2023 - Present

Scaffold business focused on design of digital/virtual synthesizers in C++ for contemporary musicians and producers

3D-Gesture MIDI Controller

Nov 2022 - Jan 2023

Design and create a standalone, capacitive gesture sensing midi controller using KiCad, Altium, and embedded software in C

FPGA-Based DAC

Oct 2020 - Aug 2021

Design and implement a sigma-delta digital-to-analog converter in SystemVerilog

Mixed Analog and Digital VLSI Projects

Aug 2023 - Dec 2023

Using Xschem, Magic, LTSpice, NetGen, LISP, and SKY130PDK, design, test, layout and verify various mixed-analog-and-digital integrated circuits for precision applications

Core Skills

KiCad, Eagle, Spice, Layout, Rust, Audio Engineering, MATLAB, Python, LISP, Verilog, SystemVerilog, Cadence Suite, LVS, Xschem, Backpacking, Embedded Systems, Electronics, Controls, Power Systems, Power Electronics, Sustainability, Renewable Energies, Logic Design, Quantum Computing, Mixed-signal VLSI, Sustainable agriculture, Magic VLSI, Project Management, Product Development, Team-Building, Power Distribution, Electrical Design, Problem-Solving Skills, Energy Management, Effective Collaboration, Collaborative Design with end-users, DSP, Software Architecture, Electrical Engineering, Firmware Development, Medical Devices, Eagle Scout, Machine Learning, AI, C/C++

Education

Olin College of Engineering

Feb 2020 - Dec 2024

Bachelor of Science Electrical Engineering and Computer Engineering

Victoria University of Wellington

Dec 2023

Minor Jazz Studies and Music Production

Interests

Jazz, Modular Synthesis, Sustainable Beekeeping, Backpacking, Music Production, Audio Engineering, Biking, Community Organizing, Safe Cycling Advocacy, Gardening, Upright and Electric Bass, Music Instruction, Multi-Media Art Collectives, Audio Plugin Development, Synthesizers, Neuroscience, Non-Profit Excellence