

Noah C. Kiser

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Work Experience:

System Engineer, Automation and Controls, M.C. Dean: Durham, NC Jasn – July 2021

- Engineered and installed the instrumentation and automation system for a quarter-million square-foot pharmaceutical plant under a multi-million-dollar contract.
- Coordinated Design Engineers, Electricians, and Technicians to assess and install 20+ PLCs, and 400+ Flow, Pressure, and Temperature Transducers on a DeltaV system.
- Reviewed and modified over 200 CAD drawings to meet UL and NEC specifications.

Silicon Hardware Engineer Intern, Microsoft: Morrisville, NC May – Aug 2020

- Collaborated on cross-discipline hardware and software projects.
- Accelerated verification workflow through UVM automation scripting.
- Improved user experience with intuitive CLI and clean error handling.
- Reduced Verification Engineers' working time by 20 minutes per test on average.

Technician and Sales Representative, Intrex Computers: Raleigh, NC July 2018 – Aug 2019

- Diagnosed, soldered, and repaired computers on a component level
- Trained employees to repair motherboards and remedy software issues.
- Consulted with clients to determine system requirements and meet customer needs.

Education:

North Carolina State University: Raleigh, NC

- B.S. in Computer Engineering, Concentration in Embedded Systems. December 2021
- B.S. in Electrical Engineering, Concentration in Control Systems. December 2020

Relevant Coursework: Analog Circuit Design, PCB Design, Stability and Control, VHDL and SystemVerilog, ASIC and FPGA Design, Discrete Control Systems, Prototyping and DFM.

Certifications and Skills:

Certifications: Electrical & Computer FE Exam Passed, EI Intent, NEC, NFPA 70E, OSHA 10.

Technical: Embedded Systems, Mixed Signal PCB Design, Microcontrollers, Networking, Power Management, DeltaV/PLC/HMI/SCADA, Building Infrastructure, 2D and 3D CAD, Troubleshooting, Scripting/Automation, Oscilloscope and Logic Analyzer, Power Filtering.

Programming: Verilog, C, C++, Python, MATLAB, LabVIEW, BASIC, Assembly, Full-Stack, ModelSim, Quartus, PSpice, Discrete Feedback Control, Design and Logic Verification.

Soft Skills: Communication with Non-Technical Team Members and Clients, Critical Thinking, Initiative, Complex Problem Solving, Attention to Detail, Mentoring, Active Learning.

Projects:

Remotely Operated Surveillance Robot: Duke Energy Senior Design: Design Team Lead, Programming Lead, 4G/Wi-Fi controlled, multi-camera robot, Low latency control feedback, Video stream recording, Closed-loop Encoder PWM Motor, Python and C++.

LED Matrix Clock: Custom mixed-signal PCB, RTC, Raspberry Pi, ATmega microcontroller, I2C Accelerometer, UART at 200kbit, Hardware SPI at 10MHz, Automatic atomic time sync.

Portable Power Bank: Custom PCB, LiPo battery charge controller, Power distribution, Microprocessor charge state management, DC-DC and DC-AC switching converters.