

# Noah C. Kiser

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## Work Experience:

**System Engineer, Automation and Controls, M.C. Dean:** Durham, NC Jan – 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.