Samuel Deaton

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Dedicated Computer Science Student with experience in Robotics and Electronics Engineering

WORK EXPERIENCE:

- Tennessee Machine Tool — Apr '25 - Present
  Software Engineer
  - Data Analysis/Data Entry
  - Creating .NET programs to populate products
  - Debugging enterprise programs
  - Graphic Design
- Kingsport City Schools — Jun '23 - Aug '23
  IT Internship
  - Manage Chromebooks throughout the district
  - Setup faculty and student devices
  - Repaired computers
  - Transport devices/Hardware
- Eastman Chemical Company — Aug '22 - Dec '22
  Industrial Operations Trainee
  - Welding
  - Operating heavy machinery
  - Metal Fabrication
- Dobyns-Bennett High School — Jan '22 - May '22
  IT Internship
  - Setup A/V Equipment for live stream events
  - Prepare microphones and speakers for theater
  - Re-imaged computers
- Self Employed — Jan '20 - Dec '23
  Computer Building
  - Researched parts around customer budget
  - Installed components into computer chassis
  - Set up operating systems
  - Installed drivers
  - Served as technical support after the sale

AWARDS AND CERTIFICATIONS:

- MATE Underwater Robotics World Championship 2025 Engineering MVP Award
- Microsoft Office Certification
- OSHA 10 Certification
- ACT WorkKeys National Career Readiness Certificate - Gold
- MSSC CPT Safety Certification

SKILLS AND ABILITIES:

- Ability to work well with others
- Motivated to complete tasks
- Soldering Experience
- Microcontroller/Embedded Systems Experience
- Electrical/Mechanical Experience
- Networking and Server Experience
- Proficient in Linux, macOS and Windows
- Proficient in Arduino, C/C++, C#
- Proficient in Fusion 360, AutoCAD

EDUCATION:

- Underwater Robotics | 2018 - Present
  - Designed and created complex buoyancy engines that run autonomously
  - Designed custom circuits that utilize Arduino and Raspberry Pi
  - Create and optimize software for ROV devices
  - Create Serial, i2C, and PWM connections across hardware
  - Led and managed construction of ROV, Buoyancy Engine, and Documentation
- East Tennessee State University
  - B.S. in Computing
  - Concentration in Computer Science
  - Expected Graduation: 2027
  - GPA: 3.5

PERSONAL PROJECTS:

- Fingerprint scanner to unlock vehicle
- Solar Panel array in vehicle to provide extra power to projects
- Raspberry Pi Dashcam / Security Camera
- Custom Linux Distribution with custom C++ code to read solar controller data and insert into SQL database
- Created custom web interface for viewing Cameras and Solar Data
- Created CAN Bus interface for vehicle to use with custom climate control system
- Custom proximity locks using BLE with ESP32 and Raspberry Pi