

Spencer Kulbacki

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High School Education: Kimball Union Academy

- Experience -

- **Indie Movie Audio Technician:**

Helping the musical group Okkerville River, I recorded sound for their latest album's debut movie. Doing so involved use of a ZoomH4n Recorder, Sure Boom mic, and various amps and mixers. Daily events while shooting included capturing dialogue, room tones, environmental sounds, and extra voice and sound effects and recording on scene audio in various locations.

- **KUA STEM Team:**

With the assistance of a classmate, we assembled a Ultimaker printer the summer of our freshman year. It was my responsibility to calibrate, and maintain the machine over the summers. I added printer upgrades and enhancements, wired an external LED lighting system, and successfully printed models with an 18hr build time. I have experience using a Full Spectrum 45W 5th Generation laser cutter. Successfully lasing rastered images and vectors I created in Photoshop CS6. As a member of the inaugural 'First Tech Challenge' (FTC) robotics team at Kimball Union Academy where we built a first place winning robot for the Merrimack Valley Regional competition. In addition to FTC, I have served as the chief engineer for our VEX robotics team building a robot that was awarded the Judge's Award for a "simple and effective design".

- **KUA Technical Theater:**

For the Kimball Union Theater I have built sets and cued lights for four shows (one every year since I arrived). Building the sets involved wood shop tool use: Table, Chop, & Circular Saws, Impact Drivers, Drill Press, and interpreting CAD drawings. In addition to that I installed and cued lights for each show using ETC ION and Express control panels..

- **3D Modeling:**

For my spring art project I chose to create an accurate 3D model of my father's 1974 MG Midget in Blender, an open source 3D modeling software. After 3 months and more than 130 hours of work I finished the model, the final render can be found here: <http://goo.gl/8eOF83>

- **Computer & Technology Repair:**

I have started and maintained a home computer repair business. I have repaired client's screens, keyboards, and hardware. I service and clean client's computers, electronic setups, antivirus, and home networks. I have also designed, purchased parts, and assembled my own desktop computer. This included researching speed and compatibility of individual components to be assembled into the final machine.

- Related Classes -

- **Intro to Robotics:**

This class consisted of building and programming Arduino robots with a motor shield addition. I wrote code taking inputs for manual control from a Wii Nunchuck to drive the

motors. I also wrote autonomous code that reads in data from light sensors, processes it and instructs the robot to follow lines.

- **Intro to Programming:**

This class used 'Processing' to create interactive software and 2D games. I wrote code that allows for user input to play games such as 'Catch The Cube' where a player uses the mouse to follow and catch a moving box onscreen. For my final project I designed and built a game that simulates traffic flow; requiring the user to operate traffic lights to control the requisite amount of cars through the intersection without crashing.

- References -

- **Stephen Rogers:**

Academic Information Systems Manager & Theater Technical Director at Kimball Union Academy

scrogers@kua.org | 603-469-2346

Worked with on theater performances.

- **Dr. Thomas Pasquini:**

Math & Science Teacher & STEM Coach at Kimball Union Academy

tpasquini@kua.org

Worked with as Academic adviser, teacher, and STEM coach.

- **Dolores Struckoff:**

Executive Director at Enfield Shaker Museum

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Previous employer & can speak to character

- **Karol Hammer:**

Software Product Manager and Senior Technical Writer/Editor

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Previous employer & can speak to character

- **Ellen Hackeman:**

IT Analyst at Dartmouth College

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Youth Group Leader & can speak to character