Andy Kauff

Technician

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Education

Bachelor's of Science, Theatrical Production
Bradley University (2014)

Bachelor's of Science, History
Bradley University (2014)

ETC Factory Tech Training (2019)

Work Experience

KSA Lighting and Controls
Systems Integrator
2018-2019
• Started up architectural lighting systems
• Advised electrical contractors on installation of lighting systems
• Created tools to complete startups faster

Entropy Precision Systems
Software Developer (Independent Contract)
2017-2018
• Created software interface to operate an LED controller
• Assisted in selecting hardware solutions for problems in the design process

Luftwerk
Software Engineer and Electrician
2017-Present
• Designed electrical systems for art installations
• Wrote software to run art installations
• Installed hardware for art installations

Various Chicago Theaters (Freelance)
Electrician and Programmer
2014-present
• Installed electrical equipment
• Created and executed power and data distribution plans
• Responsible for troubleshooting faulty equipment
• Installed structural rigging equipment
• Programmed lighting consoles
• Maintained building infrastructure
• Installed and configured IP network systems for lighting and sound control hubs
• Created custom electrical props with built-in show control
• Operated sound and lighting consoles during performances

Crate and Barrel Photo Studio
Carpenter
2017-2018
• Built sets for advertising photography
• Painted and finished sets
• Maintained power tools

Skills

Software & Design
• 3D CAD with Autodesk, Vectorworks, and Revit
• DMX, sACN, Art-net, OSC, and WS2811 control protocols
• Python, C++, HTML, CSS, lua, Rust, and C#
• Network installation, configuration, and troubleshooting
• Audio system design, installation, and repair
• Graphic design tools incl. Illustrator and Photoshop
• Physical computing: Sensors, motors, and lighting control
• Serial, bluetooth, and software reverse engineering

Miscellany
• Well versed in medieval Scottish history

Hardware
• Microprocessors and single board computers (Teensy, Arduino, Raspberry pi)
• Circuit design
• Soldering and small electronics repair
• High and low voltage power distribution
• Low-level bluetooth and serial communication

Space & Equipment
• Operation of scissorlifts and hydraulic work platforms
• Structural Rigging
• Trained with fall arrest equipment and comfortable with heights