

KIANNA SKELLY

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EDUCATION

Diploma in Mechanical Engineering Technology | BCIT | Graduation May 2023

- Detailed knowledge of manufacturing processes, material strength and properties, design factors, bolt patterns, GD&T, and proficiency with 3D modelling and CAD software (GPA 73%)

SKILLS & ABILITIES

Leadership & Communication

- Ability to stay focused on priorities when under deadlines or other external pressures
- Work collaboratively with other departments to ensure projects stay on schedule
- Create detailed schedules, documents, or technical reports, for clients and the team
- Experienced with training procedures and safety to new employees, leading by example
- Team player, but able to work independently without supervision

Mechanical & Shop Skills

- Design and create theatrical practical effects using electric motors, pulleys, RF and IP control
- Knowledgeable with identification and use of a wide range of hand and power tools
- Machine shop experience reading GD&T drawings; fabrication using CNC lathe and mill
- Automotive repair including: 12volt systems, brakes, ignition, routine maintenance
- Experienced with metrology, carpentry, and soldering

Computer Aided Design & Electrical Circuits

- Excellent proficiency with Solidworks, Inventor, AutoCAD, and other engineering programs
- Practical knowledge of electrical schematics and theatrical light dimming systems
- Program syntax-based consoles for show control of lighting, sound, and projection
- Maintenance and upgrade large networks of IP addressable lighting and sound fixtures
- Track equipment locations and parameters with drafting software (AutoCAD, Vectorworks)
- Use CAD during lighting design to determine the beam size and angle, and visualize the stage
- Use CAD for engineering and personal projects to determine position, dimensions, FEA

ENGINEERING EXPERIENCE

CNC Machinist/Summer Co-op | Zaber Technologies | May 2022– September 2022

- Produce parts on CNC lathe: Set up tooling and perform QC from engineering drawings
- Use ERP software to track shop order progress, material locations, and shipping deadlines
- Discuss machining complications with Mechanical Designers and find viable solutions
- Be an innovator with shop improvements, automation, and maintenance

Machine Shop Hand/Jr CNC Operator | Focus Mfg. | March 2021 – September 2021

- Operate and maintain CNC mills to produce parts within 0.001" tolerance
- Multi-task during multiple part operations: prepare raw stock, de-burr, tumble
- Pack and schedule shipments using courier company, communicate with customer

THEATRICAL EXPERIENCE

Theatrical Technician | Kamloops & Vancouver BC | Feb 2014 – March 2019

- Proud Member of IATSE 118 (International Alliance of Theatrical Stagehand Employees)
- Be ready to learn and problem solve, maintain optimism, and a professional, can-do attitude
- Liaise with rental clients to interpret and set up their lighting, sound, and rigging needs
- Maintain excellent freelance scheduling and communication with many employers
- Employers include: The Orpheum, Centennial Theatre, The Cultch, Roundhouse, Firehall, and Norman Rothstein, Granville Island Cultural Society, and Western Canada Theatre
- Events include: Vancouver Fringe, Writer's Festival, VIDF, and Chutzpah Festival!; also weddings, dance, music, and theatre shows, corporate seminars, and educational events

Head Electrician | Kamloops & Vancouver BC | Feb 2014 – March 2019

- Install, focus, and program a network of lighting fixtures to fulfill the needs of the show
- Document equipment purchases and rentals, prepare budgets for department meetings
- Discuss lighting needs with clients, creating a collaborative design to achieve the look
- Install, troubleshoot, and repair systems quickly, with tight deadlines between shows
- Link systems through MIDI, OSC, DMX 512, or other IP control to simplify playback

Assistant Electrician | Arts Club Theatre Company | March 2017 – March 2019

- Work with the Head Electrician to create an install plan for 300 lighting fixtures using the overhead rigging system. Document the network addresses, focus, colour, and position.
- Direct and support a team of 10 casual employees during install, assigning tasks according to personal strengths. Ensure that PPE is used, and that safety standards are met.
- Show credits include: "Mamma Mia!" (2018), and "Beauty and the Beast" (2018)

Production Technical Director | Vancouver BC | Oct 2016 – March 2019

- Confirm a venue, rehearsal space, needs from the design team, equipment rentals, and plan crew schedules two months before the production enters the theatre
- Liaise with designers to translate their ideas into the real world (Adapt designs to work within budget, ensure that all lighting/set/sound designs will be compatible using CAD)
- Instruct and supervise a crew through install, ensuring the production stays on schedule

CERTIFICATIONS

- LGBTQ2+ Workplace Inclusion Certificate – Pride At Work Canada | Dec 2022
- Operator Safety Training for Boom Lift and Scissor Lift, Level 2 | August 2018
- Fall Protection Awareness - Leavitt Machinery | August 2018
- LPEC (Live Performance Electrical Certificate) | May 2016

PERSONAL PROJECTS & HOBBIES

- Designed and manufactured HDPE shiplap door panels for 27' Catalina sailboat
- Designed and installed 1" PVC Garden Box Tomato Supports
- Measured, designed, and constructed irregular quadrilateral kitchen counter
- Maintained and repaired Yamaha 9.9 HP outboard engine (diagnose icy carburetor and leaking fuel pump diaphragm, perform engine and gear oil change, borescope inspection)
- Enjoys water and snow skiing, sailing, guitar, singing, video games (Zelda & Stardew Valley)