

# Elle Bishop

## Education

Purdue University | *Expected graduation Fall 2025*  
Multidisciplinary Engineering | *Theatre Engineering*

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Portfolio:  
[ellebishop.com](http://ellebishop.com)

## Outstanding Coursework

- Designed and built a MIDI network in QLab to control a scale model dark ride. Used a line following cart, 4 iMacs, a PLC, 5 LCD panels, 6 speakers, and 6 RGBW lights
- Served as deck carpenter and maintained safety and operation of set including 22' rim driven turntable. Communicated w/ stage management and crew to diagnose issues
- Built a PLC, wrote ladder logic programs, and designed control systems to match various typical stakeholder needs. Projects included: Gradually opening wall over course of show, haybale wall crashing down around actor

## Industry Experience

### Head of SFX and Entertainment Tech

Busch Gardens Tampa Bay | *May-Aug. 2023*

- Tested and repaired 30+ pneumatic and animatronic effects in four haunted houses
- Adjusted programming/timing and sensors to achieve desired scare effect
- Wrote detailed documentation and created accessible troubleshooting guides for House Technicians to maintain SFX operation
- Howl-O-Scream named Top 2 Best Theme Park Halloween Events by USA Today (2023)

## Skills

- Proficient with NX, AutoCAD, Microsoft Excel, Sketchup
- Programming experience with ladder logic, MATLAB, C
- Design experience using Eos/Augment3D, Vectorworks
- Coursework includes control systems, show networks, statics, dynamics
- Conscientious and thorough, always looking to make improvements or adjustments through asking questions, analysis, and working with a team

## Additional Involvement

- Boiler Box Band Brigade Leader, Outstanding Boiler Box Band Member Award recipient, Gold and Black Sound member *Fall 2021-Present*
- Mellophone in Purdue All-American Marching Band *Fall 2023-Present*
- 125 hours logged for the Operations and Logistics Volunteer Management Team *Fall 2022-Present*
- Stage Machine Design Competition, awarded Most Elegant Implementation, tied for Best Teamwork *Spring 2023*

## References

**Kyle Fayard** – Entertainment Tech Supervisor, Busch Gardens Tampa Bay  
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**Brian Targett** – Howl-O-Scream Event Tech Lead, Busch Gardens Tampa  
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