

Korbin Burkhardt

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EDUCATION

The Pennsylvania State University, Media, PA

May 2022

- B.S. Engineering, Multidisciplinary Engineering Design, GPA: 3.51

WORK EXPERIENCE

Michael's Paving, Aston, PA

April 2025 – Current

Videographer/Editor

- Recorded paving content using a DJI drone, GoPro, and Canon camera
- Edited short-form content that is uploaded every business day
- Responsible for handling the production equipment

Korbin Burkhardt's Special Effects, Aston, PA

November 2023 – Current

Special Effects Technician/Production Assistant

- Created multiple special effects including a squib, throat cutting effect, dual action Wolverine claws, and wearable mechanical wings
- Recorded videos showcasing each effect for an example of what they would look like on camera
- Worked on short films as a Production Assistant setting up Aputure lights, microphones, and keeping track of camera lenses and attachments

Paradigm Consulting Engineers, West Chester, PA

November 2022 – October 2023

Mechanical Engineer

- Set up mechanical design drawings in AutoCAD
- Created models of equipment to be used in Revit projects
- Designed piping and ductwork for projects in Revit
- Created floor plans in AutoCAD from physical design drawings

RELATED EXPERIENCE AND ACCOMPLISHMENTS

Senior Capstone Project

Fall 2021 – Spring 2022

- Worked with Refined Plastics to design a Below-the-Hook flipping device for a gantry crane. The device would lift a shipping container from a train car, move it to a dumping zone, flip it upside down to empty it, and return it back.

Product Realization

Fall 2021

- Designed, built, and coded an extension ladder safety device that would determine if the ladder was set up at the proper angle and if it would be in danger of tilting.

Robotics Design and Applications

Fall 2021

- Built and coded a robot to avoid obstacles, follow an object, use wheel encoders, and follow a line using a PID

Computational Modeling Methods

Fall 2021

- Performed FEA analysis on multiple types of structures including trusses, static beams, and a ladder placed against a wall. Reviewed how the forces affected the structure and made sure they passed safety requirements

SKILLS AND PROFICIENCIES

C++

MATLAB

MS Office (including Excel)

Solidworks

AutoCAD

Revit

HONORS AND AWARDS

Cooper Honors Program

Fall 2017 – Spring 2019

Chancellor's Award

Fall 2017 – Spring 2019