



JUSTIN COLE

Mechanical Engineer

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☎ 412 - 626 - 9820

🌐 justincole.cc

EDUCATION

- **West Virginia University**
Master of Science (Incomplete)

Attended WVU for a MSME degree. Researched UAV path planning using a modified potential fields algorithm. Furthered my education in engineering and also participated on the university's first team for the NASA Robotic Mining Competition. Incomplete due to advancing into a position at 4Moms.

- **West Virginia Institute of Technology**
Bachelor of Science - Mechanical Engineering

Completed a Bachelor of Science degree. Participated in Baja SAE for two years. Converted a '72 Suzuki 750GT 'Water Buffalo' to a fully rideable electric motorcycle as senior project. Gained valuable experience in the machine shop and learned to love engineering.

REFERENCE

MIKE FORMICA

CEO+FOUNDER - THREERIVERS3D

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RICH JUCHNIEWICZ

ENGINEERING DIRECTOR - 4MOMS

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ELI WIEGMANN

FOUNDER - BASE DESIGN GROUP

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PORTFOLIO

[HTTP://JUSTINCOLE.CC](http://justincole.cc)

EXPERIENCE

- 2018 - 2021
Seegrid
Mechanical Engineer

Responsible for the mechanical engineering and orchestration of the Auto-Charge project. Collaborated with an interdepartmental team to accomplish the goal of automatically recharging automated guided vehicles. Initially given a previously built proof of concept system, reevaluated all aspects of the system. Defined safety, functional, and systems requirements. Designed, prototyped, and iterated on both a stationary and a driven system design. Conducted in-house tests to diagnose and mitigate any issues found in the system and documented issues and outcomes in bug tracker. Coordinated with supply chain, manufacturing, and service teams to get units built and repaired. Created documentation for product enablement, service, and application engineering for instructions, setup guides, marketing collateral, and troubleshooting information. Accompanied first field install to guide implementation team on preparation, installation, fine tuning, and training for the system.

- 2017 - 2018
Ebb Therapeutics
Mechanical Lead

Designed and developed mechanical systems for the second generation head mounted insomnia therapy device. Defined thermal, physical, and physiological requirements before developing a module based system that conformed to the users individual geometry.

- 2016 - 2017
threeRivers3D
Mechanical Lead

Supported both released and future product development of 3d scanners for corrective orthotics. Worked daily with vendors, in-house manufacturing, and calibration. Lead initiative to automate scanner calibration.

- 2012 - 2016
4Moms
Technical Lead

Brought the car seat from engineering prototype to pre-production. Contributed and managed the continued development of the Self-Installing Infant Car Seat. Communicated with and travelled to contract manufacturer in Asia to ensure success of the product. Lead multiple trips to crash test facilities to evaluate improvements to the design.

Mechanical Engineer

Developed new mechanisms to achieve an infant car seat that could install itself. Started with a small override mechanism and ended with full ownership of the engineering of the project. Started with the first wholly in-house designed prototype and continued development to pre-production.

SKILLS

- Rapid Product Development
- Fabricating
- COTS Parts
- Sheet Metal Design
- 3D Printing
- Fabricating
- Root-Cause Analysis
- Inventor
- Solidworks
- Python
- Linux
- CNC