



JONATHON MONTINI

mechanical engineer

CONTACTS

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PROJECTS

NYPD Mobile Command Centers

Goal: Provide a lightweight composite armor solution 360 degrees around each vehicle

- Promoted to the lead project engineer to manage this program with the NYPD.
- Identified manpower requirements, coordinated outside support, forecast cost impacts, and managed the project schedule.
- Collaborated with a niche team to generate a repeatable manufacturing procedure in a timely manner, while taking ownership of process development along the way.
- Performed reverse engineering on nearly 100 vehicles using laser scanning to integrate armor components perfectly within the vehicle.
- Created engineering drawings and provided direct engineering support to the technicians.

ATTACK MATS

Goal: Integrate Weathertech floor mats into a ballistic shield for police officers

- Prioritized customer feedback and developed metrics/ targets.
- Designed prototypes, created engineering drawings, and performed ballistic tests.
- Established a one-of-a-kind shield design for Police officers.

SKILLS

Computer-Aided Design

- Solidworks
- Autocad
- VX Elements/Model (surface modeling)

Machinery & Processes

- 3D Printing
- CNC Laser / CNC Bender / Gerber operation
- Universal Robots
- LAP Laser Projection

EDUCATION



UNIVERSITY OF DELWARE

SPRING 2021 - FALL 2023 (Anticipated)

Master of Mechanical Engineering

FALL 2019 - FALL 2020

Graduate Certificate Program Composites Engineering

SPRING 2017

Bachelor of Mechanical Engineering

WORK EXPERIENCE



HARDWIRE LLC / Design Engineer

SPRING 2017 - PRESENT

- Implement designs on new products and create innovative solutions for composite armor protection on vehicles, infrastructures, and personnel.
- Perform iterative prototyping to develop precision tooling tailored to various processes such as: hot forming steel, thermal forming plastics, and vacuum forming composites.
- Experience with hand layups when using materials such as Dyneema prepreg, Kevlar, Carbon Innegra, Fiberglass, and TP film adhesives on aluminum molds.
- Responsible for creating engineering drawings, diligently working with machinists and technicians, and following project timelines.
- Communicate effectively with team-members to exercise creative problem-solving techniques that help aid the manufacturing facility. For example, designing automated machines to increase production rates involves collaboration with both the electrical and manufacturing engineers.

UNIVERSITY OF DELAWARE / Research Assistant

DECEMBER 2016 - MAY 2017

- Coordinated test procedures for further development of a 3D concrete printer with advising professor
- Analyzed test results and made process improvements

ACTIVITIES

- Delaware Club Soccer
- Sigma Pi Iota Beta Chapter
- Hobbies: Kite Surfing, Snowboarding, Woodworking