

Omar Aly

(857) 272-5648 | oa256@njit.edu | www.linkedin.com/in/omar-aly-830074124 | www.omarealy.com

EDUCATION

New Jersey Institute of Technology

B.S Mechanical Engineering
May 2022

SKILLS

Computer-Aided Design

Solidworks
Creo Parametric

Softwares

Python (Beginner), Microsoft Office,
Adobe

Miscellaneous

Website design (squarespace), Product
Management, Product Design,
Prototype Manufacturing,
Photographer

ORGANIZATIONS

American Society of Mechanical Engineers

Fall 2018 - Current

Baja SAE

Summer 2018 - Spring 2020

Archery

Fall 2018 - Spring 2020

Boy Scouts

Fall 2012 - Spring 2018

Traveler,
Tech Enthusiast

AWARDS

3rd Place - Fundamentals of Engineering
Design Showcase
NJIT

20th out of 90 - Baja SAE 2019 California
Baja SAE
NJIT

EXPERIENCE

Baja SAE | Assistant to Team Leader

January 2019 - April 2020 | Newark, NJ

- Managed project deadlines for vehicle build and competition deadlines.
- Communicated with team sponsors to acquire funding for the club.
- Managed travel plans for team members and vehicles
- Refreshed website design and information.
- Prototyped body panels, chassis frames, and electronics housings.
- Assisted Team Leader in all tasks.

Fundamentals of Engineering Design Showcase | Project Manager

September 2018 - December 2018 | Newark, NJ
Reverse Engineering

- Deconstructed a 1 Cylinder lawnmower engine and measured all components
- Reverse engineered engine in Creo Parametric with 3D model, drawings, Bill of Materials, and animations

Drone Science Fundamentals | Project Leader

October 2021 - December 2021 | Newark, NJ
Design Research

- Research on delivery drone construction, blade styles, carrying capacity, range
- Doing analysis on different aspects of the drone

Introduction to Computer-Aided Design | Project Leader

October 2020 - December 2020 | Newark, NJ
Computer-Aided Design

- Given a 2D side view image of a Sealed Ball Joint with limited dimensions.
- Using Solidworks to recreate the model in 3D with drawings of each part and complete dimensions.

Shamir Shah Design | Intern to Shamir Shah

June 2022-present

- communicate with vendors regarding lead times and cfa's
- update spreadsheets and purchase fabrics and custom furniture

Volunteering

Light the Night Leukemia Lymphoma | Remembrance

October 2016 - October 2018 | South Brunswick, NJ

- Organized Tent for People that lost loved one to Leukemia to share memories and reflect
- Assisted with registration during the event.

Cornerstone Wellness | Delivery

October 2020 - July 2021 | South Brunswick, NJ

- Packing and organizing meals and groceries.
- Delivering meals and groceries to struggling families in the pandemic.