



Nicholas J Anderson

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Education

University of Pennsylvania

2019-2023, 3.27

Mechanical Engineering (MEAM)

Engineering Entrepreneurship

Braden River High School

2015-2019, Valedictorian

SAT: Math (790), Reading (720)

Research

DNA Plasmid Vaccines

2017 - Prototyped a working DNA plasmid vaccine transmittable within the body via carbon nanotubes.

Dragster Design Dynamics

2019 - Modeled and manufactured a CO2-powered dragster based on aero-package testing and material analysis.

Misc. Projects

Automated Submarine

2022 - Designed, manufactured, and assembled a 3ft-long working sub.

DRIP

2022 - Designed and manufactured a working faucet attachment that mixes and sprays soap and water.

SuperLid

2022 - Designed and manufactured a reusable, recycled plastic lid for solo cups.

Buddy Box

2022 - Designed and manufactured a productivity-enhancing box. Created and sold 24 prototypes to consumers at Penn.

Skills

MATLAB, Javascript, Photoshop,
SOLIDWORKS (cert.), Chief Architect

Languages

Fluent in **English**

Conversational in **Spanish**

Proficient in **French**

Awards

2nd - Dragster Design (2/100)

UPenn ASME Award (1/280)

Anne Frank Humanitarian (1/550)

US Presidential Scholar

Golden Herald General Scholar

Champs Student-Athlete (1/150)

Experience

McKinsey & Company - Summer Business Analyst

May 2022 - August 2022 (New York City, NY) ; Returning Full Time November 2023

- Drove a Firm-wide talent attraction transformation w/ focuses on sourcing and diversity.

UPenn School of Engineering - Teaching Assistant

September 2021 - Present (Philadelphia, PA)

- **MEAM247** - Mechanical Engineering sophomore design lab. Lead a lab section focused on experimentation; hold office hours for teaching and advising; grade lab reports.

Pacific Gas and Electric Company - Summer Intern

May 2021 - August 2021 (San Francisco, CA)

- Interned under H2 Enrichment PM Kevin Wong as an assistant PM/researcher.
- Conducted **analysis** on the assimilation of renewables into the largest natural gas network in the nation via Synergi Gas 4.8.0 pipeline modeling and simulations.

Penn First Plus (FGLI Program) - Student Mentor

January 2021 - Present (Philadelphia, PA)

- Program pilot who oversees five incoming first year and fellow first-gen, low-income student's transition into college through weekly 1-on-1s, mentorship, and counsel.

American Society of Mechanical Engineers - Chair

March 2020 - Present (Philadelphia, PA)

- Oversee the organization, 20+ student membership, and all events. Run GBMs.
- Established an Internal Chair. Grew student membership by 110% as Chair.

Hiser-York Hay Company - Manual Laborer

March 2020 - September 2020 (Sarasota, FL)

- Oversaw ~\$50,000 of inventory; worked in sales and on delivery trucks; unloaded + stacked 350-600 130lb hay bales daily.

Penn Engineering Council - President

October 2019 - Present (Philadelphia, PA)

- Oversee 30+ membership, recruitment, five council committees, all events and GBMs.
- Created the Cohort Branch offering Freshman engineers career opportunities while working with the Professional Development committee to bring career-oriented events to all Penn engineers - as a First-Year student.

Penn Men's Club Soccer - Captain, President

September 2019 - Present (Philadelphia, PA)

- Run club practices, games, internal/external events, and national competitions.
- Created website. Drafted constitution. Led fundraiser that generated \$13K+ in 5 days.

Smoothie King - Shift Leader

March 2020 - September 2020 (Sarasota, FL)

- Tasks included: smoothie making, inventory management, up-selling/cross-selling, etc.
- Oversaw coworkers, handled complaints, and accounted for +\$1000 nightly as SL.

American Red Cross - Chapter President

August 2015 - Present (Bradenton, FL)

- Directly managed 70+ chapter members and the officer team and represented the chapter at SW FL regional conventions. Grew chapter membership by +400% from 2016-2018.
- Launched community event "Presents4Panhandle". Collected 137 children's books for 'Hiland Park Elementary School' - affected by Hurricane Michael.

Volunteer Experience | Work Experience | Technical Experience