

ZACHARY E. MCDONOUGH

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Objective: Highly motivated and detail-oriented Engineering student seeking an full-time job position providing value to a team's or project's goals.

Goal: Acquire a B.S. in Mechanical Engineering from University of Maryland.

Education

University of Maryland
Bachelor's in Mechanical Engineering

College Park, MD
May 2021(Expected)

College of Southern MD
Associate of Science in Engineering
Concentration, Mechanical Engineering

La Plata, MD
May 2019

GPA 3.7

Related Coursework:

- Intro to Engineering, Statics, Computer Assisted Drafting (CAD), Physics I, II, & III, Calculus I, II, & III, Chemistry for Engineers, Mechanics of Materials, MATLAB,

Southern Maryland Christian Academy

High School Diploma

Valedictorian

Summa Cum Laude

President Award for Educational Excellence (Straight A student throughout high school)

National Honor Society member

SGA Officer for 3 out of 4 years

White Plains, MD
May 2017

Academic Enrichment

Autonomous Vehicle Project (Fall 2018)

Lead a team to create an autonomous prototype, which had to accomplish a specific task. Soldered and wired Arduino Microcontroller designed a chassis via Solid Works program, and assembled prototype.

Member of CSM Engineering Club

Member of Beyond Volunteering Club

Logistics Team of Engineering Without Borders – Tanzania

LEADERSHIP ACTIVITIES & SERVICE

Safe Nights – Collaborated with others to make and serve food to local homeless community.

Walk to End Homelessness- Motivated people to pledge or donate money, then participated in walk.

SGA Officer (High School) – Commenced weekly assemblies and often lead school assemblies.

Church Renovations- Lead a team to demolish old downtrodden facilities, install ceiling, dry wall, tile floor, bathroom dividers, etc.

Mission Trip - Organized efforts and focused others to help the poverty-stricken community of Paintsville, Kentucky by renovating dilapidated houses.

T-shirt Company & Website - Created a website through a platform named Wix to sell custom t-shirts to raise funds for mission trip to Kentucky in 2018.

Men's Soccer - Captained and lead team at College of Southern Maryland

Employment Experience

Sunny Days Camp

June 2017-August 2017

Camp Counselor

Helped plan and implement activities for elementary and middle school aged children. Supervised participants during weekly field trips.

Camp Accokeek

June 2015-August 2017

Camp Counselor

Lead and implemented games and activities for children 4-12 years old. Supervised participants during daily aquatic activities.

Charles R. Dillon Co.

May-2015 - Present

Handyman/Landscaping

Maintained the aesthetic continuity of the buildings owned by the company.

American Home Specialist

June-2016 - August-2016

Sales Representative

Marketed and canvassed local neighborhoods for storm restoration.

Frank's Handyman Service

June-2016 - August-2017

Laborer

Performed various restoration to homes for Remax Realty.

NWSC IHEODTD (NAVSEA)

June-2018-Present

Student Engineering Intern

Assisted head engineers with set-ups for explosive tests. Aided in data collection from tests.

Documented needed changes for detailed sketches of artillery vehicles.

Core Competencies

Technical: Proficient in Microsoft Office, Microsoft Word, Microsoft Excel; Social Media Applications (Instagram, Facebook, Snapchat, Twitter); Arduino & Working Model; MATLAB; Python; GitHub

Solid command of technologies, tools, and best practices in designing mechanical equipment, Creo Parametric,

SolidWorks, and engineering drawings.

Public Speaking and Small Group Discussion

Extensive experience with power saw, skills saw, hack saw, drill, Sawzall, soldering, wiring, and hammer.