

NOAH MIFSUD

EDUCATION

University of Oregon + Robert D. Clark Honors College B.S. in Applied Physics and Mathematics - GPA: 3.83	2016-2020
University of Geneva Trans-Atlantic Science Student Exchange Program (TASSEP) Physics and Mathematics - GPA (Swiss): 4.8 / GPA (US): 3.6	2018-2019
South Eugene High School + International High School (IHS) High School + International Baccalaureate Diplomas Full IB Diploma with High Levels and French Language Certification – Score: 35	2012-2016
Lane Community College + University of Oregon Pre-Baccalaureate Mathematics - GPA: 3.34	2011, 2013-2015

ACADEMIC AWARDS

<i>Phi Beta Kappa</i>	2020
Robert D. Clark Honors College - Applied Research Award Honors Thesis: "Increasing Aerodynamic Efficiency in Electric Motorcycles with the Addition of a Rear Fairing."	2020
UO Department of Physics - Graduation with Honors	2020
Robert D. Clark Honors College Dean's List (awarded every term)	2016 – 2018, & 2020
Summit Scholarship	2016-2020
South Eugene International High School - Renaissance Man Award	2016

RESEARCH EXPERIENCE

Robert D. Clark Honors College Thesis - "Increasing Aerodynamic Efficiency in Electric Motorcycles with the Addition of a Rear Fairing." - Designed and tested a novel rear fairing concept for electric motorcycles using Autodesk CAD software and Autodesk CFD simulations - Successfully defended thesis, chosen for Applied Research Award	2019-2020
University of Oregon – Department of Physics NASA CubeSat Grant - Developed and tested a magnetic solenoid to torque against earth's magnetic field and position a 3kg imaging satellite	2019-2020

RELEVANT COURSES

- Linear Algebra I and II	A-	- Electrodynamics	A+
- Several Variable Calculus	A+	- Modeling and Simulation	A+
- Mechanics II	B+	- Numerical Solutions to Differential Equations	A
- Analogue + Digital Electronics	A	- Upper division Laboratory	A

RELEVANT SKILLS

- Programing in Python + Mathematica	- Excellent written and oral communication
- Autodesk Inventor (CAD) and CFD	- Advanced mathematics + numerical solutions
- Microsoft Software Suite + LaTeX	- Research methods and statistical Analysis
- Technical Drawing	

LANGUAGES

English– native language

French– speak fluently and read/write with high level proficiency

EMPLOYMENT

Portland Public School District

2020-2021

4th Grade “Pod” Instructor

- Independently contracted as a full-time instructor for seven students for entire fourth-grade academic year
- Provided instruction of the district approved fourth grade curriculum
- Developed and delivered original lessons in basic French, lab science, art, and outdoor pursuits
- Organized numerous field-trips, organized and managed a bake sale which raised 500\$ for the Rainforest Trust

City of Eugene 2015-2018

Lifeguard/Head-Guard

- Maintained guest safety and resolved conflicts between patrons during daily operation of large multi-purpose aquatic recreation facility
- Created and implemented rotation schedule for staff to ensure optimal coverage dependent on pool activities
- Supervised crew of up to 25 lifeguards, overseeing response compliance to injuries or incidents
- Prepared to perform first aid, water rescue, and seek assistance from emergency response agencies as needed
- Coordinated with City Parks and Recreation and direct staff to meet water and health safety standards

Professional Film maker 2016-2018

Eugene International Highschool (IHS)

- Directed and produced a film compilation of interviews of IHS program Alumni which is used as marketing material for prospective students

Eugene Library + Imagination Library

- Served as writer and creative consultant for a Eugene Library Foundation film used as marketing material for the Imagination Library and designed as a tool to teach parents how to read to children of all ages

OTHER EXPERIENCE

South Eugene International High School 2014-2016

Student Government Representative

Film Maker

- Directed and produced 5 films for student government to serve as advertising for events and initiatives
- These films were shown at schoolwide assemblies and in classrooms throughout the year

Project Manager

- Served as a founder and lead organizer for the Annual IHS Art Gala and IHS celebration
- Coordinated with 15 other student government members and faculty leaders to host around 50 guests in a formal venue and showcase a collection of physical artwork and performances submitted by students

EXTRACURRICULAR

Olympic Distance Triathlete

- Completed my first Olympic distance triathlon in summer of 2018 at Coeur d'Alene, Idaho. Placed second in my division and have since been hooked.

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Family Mechanic

Performed maintenance items and repairs on my and my family's vehicles including:

- Replaced the valve cover seals, spark plugs, ignition coils, injectors, all intake seals, brake pads and brake rotors on a 2004 Toyota Highlander V6
- Oil change, brake pad replacement and handlebar upgrade on my 2003 Triumph Bonneville
- Oil change and brake pad replacement on a 2013 Subaru Outback
- Installation of an upgraded cold-air intake on a 2017 GTI.

OTHER INTERESTS

Cars and Motorcycles (especially my 2007 BMW 328i Coupe (6spd) and my 2003 Triumph Bonneville!) · Formula 1 · Creative writing and Poetry · Backpacking · Painting · Cooking · Travel