

McKinley Blandford

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View my personal projects: kinblandford.com/home/portfolio

Education

University of Utah - College of Engineering <i>Mechanical Engineering Undergrad</i>	AUGUST 2021 – Present 4.0 GPA
Highland High <i>AP Student</i>	August 2017 - June 2021 4.0 GPA, 33 ACT

Research Experience

Assistant Undergrad Researcher <i>University of Utah Department of Mathematics</i>	JANUARY 2022- JUNE 2022
<ul style="list-style-type: none">• Worked under professor Kenneth M. Golden on the mathematical modeling of arctic sea ice• Began development of OpenPore, a microporous medium generation and analysis tool• Briefly worked on fractal dimension analysis of arctic sea ice	

Other Experience

Supervisor <i>Sweetaly Gelato</i>	JUNE 2021- DECEMBER 2021, MAY 2022 - AUGUST 2022 SLC, UT
<ul style="list-style-type: none">• Responsible for opening and closing the store, managing chores, communicating with teammates, and helping customers with anything they need.	
Cashier <i>Harmons Emigration Market</i>	SEPTEMBER 2020 - JUNE 2021 SLC, UT
<ul style="list-style-type: none">• Helped customers check out their groceries and kept things clean during the pandemic. Took simple tasks seriously.	
Assistant Graphic Designer / Layout Artist <i>Utah Women's Mural</i>	JULY 2020 - AUGUST 2020 SLC, UT
<ul style="list-style-type: none">• Graphic design / arrangement of the mural• Remote workflow management	
Art Director <i>The Highland Rambler</i>	AUGUST 2019- JUNE 2021 SLC, UT
<ul style="list-style-type: none">• Redesigned the Highland Rambler newspaper and its branding• Created a remote file management / version control system	
Welding Shop Assistant <i>Highland High Metal Shop</i>	SEPTEMBER 2019- JUNE 2020 SLC, UT
<ul style="list-style-type: none">• Helped students complete their projects and learn new techniques• Completed large fabrication commissions and fixed miscellaneous tools.• One year of experience as a TA and over three years of experience in the shop otherwise• Capable of MIG, TIG, Flux Core, and Stick welding	

Computer Programming Proficiencies

Python – Highly Skilled
Matlab – Proficient
C – Proficient
Java – Familiar
Rust, R – Languages I will learn next

Awards & Honors

Utah Flagship Scholarship <i>University of Utah</i>	<i>2021-2024</i>
Sterling Scholar - Skilled and Technical <i>Deseret News</i>	<i>2021</i>
Valedictorian <i>Highland High</i>	<i>2021</i>

Other Skills

Problem Solving: This is my particular forte
CAD: SolidWorks
Numerical Methods: Proficient in using numerical methods to solve engineering problems
Math: Extensive knowledge of PDE's, ODE's, Fourier analysis, and linear algebra
Materials Science: A strong grasp of material properties, behavior, and the design implications thereof
Physics: A notable intuition for statics and dynamics
Software (in general): Very quick to learn new software
Fabrication: Capable of operating heavy machinery and welding

References

Francesco Amendola - Owner of Sweetaly Gelato - +1 (xxx) xxx-xxxx