

# OLIVER MACDONALD

3rd Year Engineering Plus Robotics Major, Electrical Engineering Minor, BSU

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## EXPERIENCE

- **Engineering and Production, Legacy US** Jan 2022 - Present  
Conduct research and develop prototypes for new projects as well as develop the company's website and produce content for social media.
- **Robot Control Lab Research Technician, BSU** Oct 2022 - Present  
Write code for cross device communication with minimal delay time for testing machine learning program on a rimless wheel robot
- **Project Lead, Research Project, BSU** Nov 2021 - Present  
Started and am running a research project focused on building a passive exoskeleton with the intent to make them easily customizable for people with different disabilities.
- **President, Mechanical Engineering Club, BSU** Jun 2022 - Present  
Discover leads for new projects, acquire funding, organized current projects and assign roles, and develop club relations. Previously VP for the 2021 - 2022 year.
- **Assistant Coach, Boise Climbing Team** Oct 2020 - Present  
Help climbers learn new approaches to managing difficult situations during climbing which can also be applied to everyday life situations.
- **Owner & Head Photographer, Anomalous Designs** Oct 2018 - Present  
Created a website, set up an eCommerce platform, and managed SEO and social media. AnomalousDesigns.com/olivernmacdonald
- **Cashier, The HomeDepot** Jun 2019 - Aug 2020  
Assisted customers with their purchases, and answered questions about project needs in English, Spanish and French. Handled payments and personal information during credit card application processing.

## COMMUNITY SERVICE & ACTIVITIES

- One Stone Camp Leader, Tinker Camp & Outside the Lines Jul 2019
- Member, BSU Honors College Aug 2020 - Present
- Member, Society of Women Engineers, BSU Chapter Aug 2021 - Present
- Member, Multilingual Student Alliance Nov 2021 - Present
- Taught Photography, Sage International School of Boise Aug 2022 - Sep 2022
- Teaching Freehand Drawing, BSU ENGR 180 Class Nov 2021 - Present

## SKILLS

- Bilingual in Spanish and English, advanced French Speaker
- Graphic design using Adobe Illustrator
- Website development in Wix
- Intermediate user of Fusion360 & Solidworks
- Advanced Technical & Freehand Drawing skills
- Intermediate coding skills in Java & C++
- Machine Shop Certifications: Metal & Wood Lath, Mill, Tig & Mig Welding, Laser Cutter
- Photography: Exhibited in Athens Greece, Stockholm Sweden & Dublin Ireland

## AWARDS & RECOGNITION

- Student of The Year, Sage International School 2018 & 2019
- Employee of the Month, Home Depot Federal Way, January & July 2020
- Highest Honors in the College of Engineering program, BSU Fall 2020
- Awarded \$35,000 Awarded for an ongoing project focused on turning an old fountain into a sculpture. \$20,000 from Boise State University COEN Dean and \$15,000 from Morrison Foundation 2021 - Present