

# A LVARO MORALES

[Linkedin.com/in/wobot](https://www.linkedin.com/in/wobot)

[r08075@gmail.com](mailto:r08075@gmail.com)

South Salt Lak, UT

801-895-9169

## SKILLS

- Part 107 Certified. Amateur FPV pilot.
- CSWP Certified. Extensive experience with drawing standards, GD&T, simulations, complex assemblies, & file mangement.
- Expert use of computers & windows OS navigation.
- Well-versed in manufacturing processes, environments, & equipment.
- Industry experience metal, resin, & glass fabrication & manufacturing.
- Well versed in 3D printing, materials & applications. (Bambu X1C)
- Successfully driven products to market.
- Strong in communication and technical writing.
- Clear understanding of electronics and electromechanical systems.
- Expertly fluent between Spanish and English.

## EXPERIENCE

### Machine Operator/Engineer, Powersource - Asphalt Grinding for UDOT

2/2024 - Today

- Operate & maintain the grinding machine & its auxiliary systems.
- Own the file management. All things CAD, drawings, & manufacturing.
- Emergency on-site repairs. i.e: Broken belts, electrical malfunctions, & seized bearings.
- Standardize operational and ergonomic documentation for effective use of the machine.

### Custom Hardware Engineer, 3form -Architectural glass & resins

2/2022 - 2/2024

- Was the technical liaison between the sales team and the clients.
- Designed and built a \$180K custom light fixture for the South San Francisco Library (2023).
- Collaborated with design team to standardize custom solutions.
- Estimated hardware pricing for large custom projects.
- All things CAD, drawings, & analysis as needed.
- Set up mockups for larger projects.

### RD Engineer, Fluidra - Worldwide Automatic Pool covers & Electronic firepits

2/2019 - 2/2022

- Managed the design and development of all decorative fire & water products.
- Reported progress and recommended trajectory on a weekly basis.
- Designed and released Fluidra's [Candelere](#).
- Salvaged \$50K of inventory previously deemed obsolete.
- Resolved a 70% failure rate on concrete firepits.
- Traveled to establish partnerships and inspect vendor facilities.
- Collaborated with all teams to sustain the life of the products.

### Owner, badwobot.com - Smartphone repair

11/2016 - Today

- 5-star Google rating with ~650 reviews. Remarkable customer service and work ethic.
- Secured a contract with Asurion, the largest phone insurance provider in the nation.
- Keep up to date with latest technology and trends in consumer electronics.
- Produce all marketing material.
- Manage inventory, financials, & vendor relations.

## EDUCATION

### University of Utah Mech E B.S.

Biomechanics  
Ergonomics

### University of Utah Philosophy B.A.

Metaphysics  
Epistemology

## Software

- Solidworks
- Adobe CS
- Arduino
- AI Tools

## Tools

- All tools
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- 3D printing
- Machining