

Val Gliozzi

1055 Jefferson Ave #1, Brooklyn NY 11221 :: vgliozzi@gmail.com :: (908) 581-8949 :: valgliozzi.com

Skilled in the end-to-end production of electrical and mechanical goods:

- Research and Design
- Rapid Prototyping
- Material Selection and Sourcing
- Drawings and Schematics
- Assembly and Assessment
- Revision and Iteration
- BOM Management
- Production Scaling

Relevant Professional Experience

Empathic Technologies - Prototyping Engineer

2021

- Created and edited 3D models according to specifications requested by design team
- Realized concepts into physical objects via 3D printing technologies such as SLA, SLS, and FDM, as well as creating molds and casts of objects from silicone and resins
- Assembled prototype units to a working state from components provided by other teams as well as those which I had produced

Lynq Technologies - Associate Engineer

2017-2021

- Designed and manufactured multiple support products for engineering team, such as breakout boards, programming/charging furniture, and test fixtures - including some which were used on contract manufacturing assembly line
- Created marketing/fundraising prototypes of companion products such as proof-of-concept, fully-functional drone integration of IoT tracker technology
- Developed a rapid mobile deployment system for flagship devices, including all hardware, from industrial design to manufacture of mechanical aspects to electrical design of custom PCBAs to writing complex control software in Python, as well as testing and revision. Self-managing the project allowed the remainder of the engineering team to focus on meeting goals for development of the primary product.
- Designed, produced, assembled, and tested sales accessories such as development boards, including custom plastic housings
- Performed quick-turn PCBA rework and assembly, including development and experimental rework
- Collaborated with business and marketing team to help set goals and expectations and to create product definitions
- Created CAD models of custom PCBA products
- Liaised between engineering team and CM to ensure proper assembly of product, including visiting overseas factory on multiple occasions, training line workers, devising solutions to 11th hour manufacturing issues and suggesting DFM changes, and optimizing line processes to improve efficiency; managed CM relationships
- Created troubleshooting charts to aid customer support in solving customer issues
- Kept stringent documentation and created assembly instructions for multiple products
- Executed international UN3481 hazmat shipments according to regulations

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Good Interfaces - Engineering Director

2020

- Built and maintained relationships with overseas contract manufacturers
- Advised contract manufacturers to produce EVT and DVT samples to specification
- Ran sourcing efforts to reduce overall BOM costs and increase profit margins
- Reviewed and revised PCBA designs
- Prepared ECOs and manufacturing packages and distributed to CMs
- Tracked costs of goods and services and maintained COGS sheets to ensure profitability was maintained

10x Beta - Contract Engineer

2017-2019

- Re-worked circuit boards according to revised schematics
- Devised creative solutions to difficult revision tasks

MIX NYC - Construction Coordinator

2018

- Communicated with all other departments to determine construction needs for event
- Drew construction plans for all required builds, ordered necessary materials
- Managed volunteers' time and organized build dates to ensure on-time delivery

Haven Cycles - Bicycle Mechanic

2016-2017

- Worked with customers to understand issues they perceived with their bicycle, and discussed possible solutions while considering individual budgetary limitations
- Assessed, diagnosed, built, re-built, and repaired all aspects of bicycles

Capabilities

Programming: Python, Java, C++

Prototyping Platforms: Raspberry Pi, Arduino and compatible clones

PCBA: Altium, EagleCAD

2D/3D: OpenSCAD, Solidworks, Meshmixer, Adobe Illustrator, TinkerCAD

Soldering: Hand iron down to 0201 package and SOP SMT components; hot air rework; hand pasting, placement, and reflow oven assembly

CNC: CNC routers, laser cutters, and 3D printers including selecting ideal materials and processes for specific applications

Mechanical/Material: Wood, metal, and plastic working with both manual and power tools, MIG welding, maintenance and repair of belt and chain driven systems

3D Printing: Extensive experience with Makerbot, Creality, and Prusa brand FDM printers, as well as experience with SLS and SLA printing

Education

Associate of Applied Sciences, Information Technology,
Raritan Valley Community College, Branchburg, NJ