

## Val Gliozzi

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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

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### Relevant Professional Experience

#### **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

#### **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

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### 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

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## 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

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## Personal Projects of Note

- Retrofitted a 35-foot school bus through engine modification, braking system overhaul, mapping and repairing existing electrical systems, installing solar and new electrical systems, installing plumbing, and designing and building the interior into a comfortable living space
- Circuit bent tape decks and modified housings as part of the creation of an orchestra of magnetism-based "instruments"
- Built an arcade cabinet out of e-waste and reclaimed materials
- Overhauled a defunct CNC CO2 laser cutter, implementing multiple improvements and missing safety features
- Selected components and assembled countless custom bicycles including cutting/threading spokes and building wheels on vintage restores through new modern builds

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## Education

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