Val Gliozzi
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Summary

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

- ➔ Research
- ➔ Material Selection
- ➔ Mechanical Drawings
- ➔ Manufacturing Files
- ➔ BOM Management
- ➔ Assembly
- ➔ Revision; Iterative Design
- ➔ Cost-Downing
- ➔ Component Sourcing
- ➔ Production Scaling

Relevant Professional Experience and Projects

Lynq Technologies - Associate Engineer *2017-2021*

- ➔ Supported engineering team with crucial PCB rework and assemblies, including development and experimental rework
- ➔ Collaborated with business and marketing team to help set goals and expectations and create product definitions
- ➔ Designed and manufactured multiple support products for engineering team, including but not limited to breakout boards, test fixtures, and programming/charging shelves
- ➔ Created marketing/fundraising prototypes of companion products such as proof-of-concept, fully-functional drone integration of IoT tracker technology and a charging/deployment case for flagship devices, including all software development and testing
- ➔ Designed, assembled, and tested sales accessories such as development boards, including custom plastic housings
- ➔ Liaised between engineering team and CM to ensure proper assembly of product, including visiting factory on multiple occasions, training line workers, and changing processes to improve efficiency; managed CM relationships
- ➔ Solved 11th hour manufacturing issues in high-stakes, high-pressure situations with serviceable solutions until product design could reach next revision
- ➔ Self-started, self-managed, and solo-developed much of my work to allow other team members to focus on primary objectives

MIX NYC - Construction Coordinator *2018*

- ➔ Communicated with all other departments to determine construction needs for event
- ➔ t

Haven Cycles - Bicycle Mechanic *2016-2017*

- ➔ Aasdassd

Capabilities

Prototyping Platforms: Raspberry Pi, Arduino and compatible clones
PCB: Altium, EagleCAD
2D/3D: OpenSCAD, Solidworks, Meshmixer, Adobe Illustrator, TinkerCAD
Mechanical/Material: Soldering, including SMT, wood, metal, and plastic working with both manual and power tools, MIG welding, 3D printing and the applications of various methods

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and materials, laser cutter use including ideal materials settings, maintenance and repair of belt and chain driven systems
Documentation: Creating detailed and legible BOMs, assembly instructions, troubleshooting charts, and manufacturing packages
Manufacturing: Assembly line training and oversight, BOM management, cost-downing exercises, part sourcing, building and maintaining relationships with contract manufacturers and distribution channels
Logistics: International UN3481 hazmat shipping
Programming: Python, Java, C++

Personal Projects of Note

- ➔ Retrofitted a 35-foot school bus, ranging through engine modification, braking system overhaul, mapping and repairing existing electrical systems as well as installing new electrical systems including solar, installing plumbing, sourcing (predominantly reclaimed) construction materials, and building the interior to be a comfortable living and work space, almost entirely alone (2014)
- ➔ Circuit bent tape decks and modified housings for changes, with the intention of expanding to a full magnetic-based orchestra of “instruments” - project currently sidelined (2016)
- ➔ Built an arcade cabinet entirely out of e-waste or otherwise reclaimed materials, with the exception of some fasteners and all heat shrink tubing, glue, and solder. Intended for a cancelled E-Waste Summit to demonstrate the remaining usefulness is trash (2019)
- ➔ Rebuilt and restored to functionality a trashed CO2 laser cutter and implemented many improvements and missing safety features, all on a shoe-string budget (2020)
- ➔ Selected components and assembled multiple custom bicycles, including cutting and threading spokes and building wheels on bikes ranging from vintage restores to new builds (2015-Present)

Education

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

References

Available upon request.