

Lucy Chambers

Research Engineering / Electrical Engineering
Research Engineering @ Kyocera AVX
<https://www.kyocera-avx.com/>

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Liberty, South Carolina

SUMMARY:

Self-taught and highly skilled electrical engineer with robust experience in full-stack electronics development, product design, research engineering, and technical report composition. Proven ability to manage complex projects from concept to completion. Exceptionally self-motivated, endlessly curious, rigorously systemic and highly adaptable.

PROFESSIONAL SKILLS:

Full Stack Electronics Development:

Circuit design, PCB design/assembly, functional testing, hardware debugging, firmware development/evaluation, software debugging, compliance testing

Research Engineering:

Teardowns, reverse engineering, component analysis, system evaluation, prototype evaluation/implementation, failure analysis

Product Design and Development:

PCB design, CAD design, small scale manufacturing process design and implementation, 3D printing (FDM, mSLA), CNC machining, coating/plating processes

Technical Research and Report Composition:

Researching technologies and application areas on behalf of corporate and engineering teams developing products, writing internal reports as well as marketing materials and implementation guidelines for publishing

WORK EXPERIENCE:

Research Engineering

Kyocera-AVX. Fountain Inn, SC - April 2023 - Present

Performed teardowns on products in application areas of interest, reverse engineering products, prepared reports on emerging product categories and application areas for internal and customer use. Evaluated prototype components in existing products and systems to assess performance
Coordinated with engineering staff leading product development, marketing teams researching application areas and product sectors, and corporate teams to assist product development
Produced technical papers, marketing materials, and demo boards for internal and public use

Engineer

Machinic Garden LLC. Liberty, SC - October 2022 - May 2023

Developed electronics, CAD models, 3D printing processes, laser cutting/engraving processes, plating procedures etc for small batch production. Marketed products, managed website, adsense, payment, logistical services. Designed and managed automated production processes. Coordinated with buyers to design custom hardware and devices for small batch production. Coordinated the assessment, purchasing, acquisition, and implementation of manufacturing and test equipment.

Electronics Lab Technician

Electrolux. Anderson, SC - May 2022 - October 2022

Assisted engineers in driver and controller board development. Performed compliance testing on a variety of consumer devices and evaluated firmware version and board revisions for reliability. Utilized OrCAD, LabVIEW, National Instruments PXI, and a wide array of electrical testing equipment

Affiliations:

Volunteer at The Cleo Bailey Experiment

2020-Present

Anderson, SC, USA

<https://www.cleobailey.org/>

Presenter at Opensauce 2024

June 14-15 2024

San Francisco, California, USA

<https://opensauce.com/>

Additional References

LinkedIn:

www.linkedin.com/in/lucy-chambers-46b257303

Project Gallery:

eigenlucy.github.io/gallery/

Resume/CV:

<https://eigenlucy.github.io/resume/>

Github Profile

<https://github.com/eigenlucy>