

Lucy Chambers

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

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SUMMARY:

Dedicated engineer. I am extremely proficient in full stack electronics development (circuit design, PCB design, board manufacturing/assembly, prototype evaluation/revision, firmware development/evaluation, compliance testing) acquired in my professional work and independent projects. I have experience in reverse engineering, industrial research, software/front end development, technical report composition, market research, and much more!

PROFESSIONAL SKILLS:

Full Stack Electronics Development:

Circuit design, PCB design/assembly, prototype testing, firmware development/evaluation, C/C++/Python, compliance testing

Product Design and Development:

PCB design, CAD design, small scale manufacturing process design and implementation, 3D printing (FDM, mSLA), CNC machining, chemical processes (sputtering, nanoparticle deposition, electroplating)

Research Engineering:

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

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 products, 3D printed products, laser cut/engraved wood products, plating processes 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:

Lead Volunteer at The Cleo Bailey Experiment - 2020 - Now

Anderson, SC, USA

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

Presenter at Opensauce 2024 - June 14-15 2024

San Francisco, California, USA

<https://opensauce.com/>