

Curriculum Vitae

Carol Zhou

Summary

- Former Electrical engineer/ technician with 8 years of working in Old Dominion University. Comfortable working on solo or as part of a team. Detail oriented, hardworking. Diligent Learner.

Education

- Foothill College, California (2007-2008) Courses taken: Database System, Java Programming level 1 and level2, Unix and Linux (all As)
- MS Graduate Student in Computer Science, Old Dominion University, Norfolk, VA, U.S.A

Working Experience

July 2014 – 2023, Lab Technician, Frank Reidy Research Center for Bioelectrics, Old Dominion University, Norfolk, VA

- Working as a technician supporting the engineering developments in multiple projects funded by Office of Naval Research (ONR) and Air Force Office of Scientific Research (AFOSR)
- Working as a technician supporting the engineering developments in project funded by start-up company
- Circuit design, prototype, testing, and troubleshooting, especially high voltage high speed pulse generators, with high power MOSFETs
- PCB layout design and soldering/assembly
- 3D modeling for parts fabrication
- Cell culture, cell passage, and prepare plates, dishes to grow cells to desired density for assay
- Fluorescence microscopy (membrane integrity assay, Yo-pro, Propidium iodine and calcium influx imaging)
- Widefield imaging

Skills

- Experienced in using all kinds of electrical meters, oscilloscopes, electrical tools, 3D printers.
- Skilled in using PCB design software, software of origin8, software of CST.
- Familiar with biology labs, protocols, and operations.
- Good at program language and data science

Publications

-- *Journal papers*

Xiao, S., Yamada R., **Zhou C.** (2020). Quadrupoles for Remote Electrostimulation Incorporating Bipolar Cancellation, *BIOELECTRICITY*, Volume 2, Number 4, (pp. 382-390), Publisher: Mary Ann Liebert, Inc