Danny Rivers

Computer Engineer

- Proficient in implementing image processing algorithms in MATLAB, Python, and C++
- Knowledgeable in advanced electrical engineering concepts with masters degree
- Experienced in writing low level code for embedded systems
- Adept in creating higher-level programming scripts within an Agile environment
- Conducted product demonstrations to large audiences of 200+ people
- Led multiple teams of 4+ people for prototyping and startup projects
- Provided training and mentorship to students in programming courses

Contact

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Skills

Programming Languages
Python, C#, C++, C, Assembly,
MATLAB, VHDL, Verilog, Java,
JavaScript, HTML, CSS
React, Angular, Node.js

Tools and Software
GitHub - dwrivers
Cadence, Jira, Unity, Blender,
Adobe Illustrator, Adobe Photoshop

Project Management
Deep Learning - Tensorflow
Computer Vision
PM Methodologies - Agile | Waterfall

Education

MS Electrical Engineering
Cal Poly SLO - 2022

BS Computer Engineering
Cal Poly SLO - 2020

Interests

Community Service
Homeless Outreach
Food Bank Volunteer

Hobbies
Drumming, Game Design, Tennis

Experience

Automation Engineer | Engineering Department
APCT, Santa Clara, CA - 5/2022 - 12/2023

- Designed and implemented automation scripts for 7 manufacturing sites to improve PCB DFM workflows
- Deployed global dashboarding, capturing data from analog sensors into SQL databases, to create process visibility
- Integrated PCB registration solutions to increase throughput and yield

Image Analyst | Electrical Engineering Department
Cal Poly, San Luis Obispo, CA - 1/2019 - 9/2019

- Compiled data to build computer vision algorithms
- Devised image recognition software to identify and predict strawberry yield

Internship | Software Engineering Department
Cru, Orlando, FL - 6/2019 - 8/2019

- Created and deployed *Event Registration Tool*
- Restored GUI using React Redux with 6 person team

Internship | Digital Pathology
Roche Diagnostics, Santa Clara, CA - 6/2018 - 9/2018

- Co-Developed virtual microscope for cancer pathologists
- Designed prototype of next-generation viewer using WebGL

Papers and Projects

Masters Thesis
Investigation of Green Strawberry Detection Using R-CNN with Various Architectures

Switch Boss - Capstone
Interactive model of the power grid of the Vandenberg Air Force Base

References

Jane Zhang
Thesis Advisor, Cal Poly SLO

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Eric Schmidt
Manager, APCT

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