Sidharth Hulyalkar

120 Worcester Loop, Los Gatos CA
408-529-8684
shulyalk@ucsd.edu

SUMMARY

Looking for an internship in the areas of bioengineering and electrical engineering.

TECHNICAL SKILLS

Java	Putty	HTML
Python	Vim	CSS
BeagleBone	UNIX	Quality Assurance
MATLAB	Data Analysis	Microsoft Office

EXPERIENCE

Engineering Intern   Feb 2016-Sept 2016

Dolby Laboratories

- Performed and fine-tuned the process of picture quality and white point balance testing in Dolby Vision High Dynamic Range(HDR) using Spectra Cal software called CalMAN. Documented the process and also trained senior engineers.

- Configured NVidia Jetson Boards using UNIX command line and Linux OS Ubuntu.

- Aided in researching and developing a new concept tool that mapped the relationship between Dolby Vision metadata and the television backlight control. Used Putty, UNIX command line and Python to configure the tool and implement it to optimize Dolby Vision in televisions.

Student   July 2015-Aug 2015

COSMOS STEM Program, UCSD

- Learned and performed lab techniques of polymerase chain reaction(PCR), western blotting, gel electrophoresis, blood smear, gene silencing (gene KO), and pulse oximetry.

- Identified proteins within ghost membranes of red blood cells using Western Blotting.

- Created a research proposal involving platelet factor 4(PF4) and its use in curing malaria.

QA Engineering Intern   June 2014-Aug 2014

Dolby Laboratories

- Worked on Picture Quality Analysis of glasses free 3D televisions. Recorded and analyzed data involving the errors observed with 3D subtitles.

- Learned basic image processing and programming with Python and MATLAB.

- Checked if there are any frame drops as part of Q/A testing while playing 3D video at different frame rates such as 29.9, 30, 45, 50, 59.9, and 60 fps, and analyzed it through UNIX based software.

EDUCATION

University of California, San Diego   June 2020

La Jolla, CA

- Intended Major: Electrical Engineering

- Coursework: CSE8B, Math 20B, Math 20C, Physics 2B, Chemistry 6A, Chemistry 6B.