

Diary

Student Details

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PS Instructor : NOEL PRASHANT RATCHAGAR

Week: 20/06/20 to 24/06/20

Plan for the Week: (what was your plan for this week in terms of learning and project objectives)

1. Compile a report on all the work done during 6 weeks.
2. Learn about TFT Display Programming and trying to understand the complexities of the camera used in the industry.
3. Study research papers on Orthogonal frequency division multiplexing and 5G cloud radio access networks .

Learning Outcomes of the Week

About the PS 1 Station

1. Prism Surgicare,a division of Eclipse is one of the leading brand for Healthcare Solutions in India.
2. They also have been awarded many recognitions like Udyog Ratna,Nagar Ratna,Young Entrepreneur and many more.
3. Eclipse's Team believes in customer satisfaction, service maintenance and homogenous culture.

About the Project Domain

1. Learnt about specification criteria required for selecting the camera like optical zoom,digital zoom,white balance,shutter speed,exposure,etc.
2. Read about different types of transmission-Radio,Microwave,Infrared and Light.
3. Mini convertor Upcross Down HD is a full standards converter that lets you convert any SD or HD video format to any other SD or HD video format.

Skills Gained (Technical as well as soft skills)

1. Suggest a cost effective solution for sending commands over the same video transceiver interface or a different interface.
2. Choosing the correct research paper and extracting your required information and trying to work on those specifications to implement a cost effective solution.

Major Learning & Project Milestones

1. Fast Fourier Transform is an algorithm that computes the discrete fourier transform and helps in converting a signal from original to frequency domain and vice versa.
2. Customer Satisfaction should be the ultimate goal while building a technology. We should be cost effective so that our customer base is strong.
3. If we use correct technology we could save a lot of space, money as in case of using OFDM technology over conventional single carrier modulation.

Major Challenges

1. We were not able to use SDI to HDMI convertors physically which would provide a great experience in learning and implementing the things learnt.
2. Doing project with virtual interaction with mentors and teammates was a bit challenging.