

Diary

Student Details

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Week: 07/06/20 to 13/06/20

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

1. Researching on various technologies used today for wireless video transmission, may it be through Internet or may it be over LAN.
2. Learning about Basic Camera Architecture in OTL and SDI and HDMI convertor for input and output.
3. We need to do market research and come with a technology which is cost effective(desirable from customers point),compact in size, low power consumption and low in latency.

Learning Outcomes of the Week

About the PS 1 Station

1. Their Research and Development team is working on minimizing the wired devices used in OTL camera lights and trying to make it wireless.
2. Here, the camera output is in SDI format (Signal carried via Co-axial cables) .This is given to a SDI to HDMI converter kept at a place apart from OTL and it converts the SDI Input to an HDMI Output.
3. Eclipse's Research Team is very hardworking and is focused on innovating better and safe technologies. It motivated me a lot to learn new things.

About the Project Domain

1. Our objective with the highest priority is to remove the interface of SDI to HDMI convertor, i.e if a wireless transceiver takes a SDI input and gives SDI output. We have to eliminate the section in which the transceiver takes SDI input and gives HDMI output .
2. As of now camera controls are also to an extent through wired connections, so we need to eliminate these. For this we could try to send commands over the same video transceiver interface or a different interface may also be used but should be cost effective..

Skills Gained (Technical as well as soft skills)

1. Ability to do market research for an efficient and cost effective product.
2. How to make product scalable for future by choosing compact size devices.
3. Communication skills during group discussion: Ability to present your point with proper examples is a best way to make your point conveyed to others. Also it is better to listen to others before making any statement as more facts would be clear then.

Major Learning & Project Milestones

1. Product should be customer oriented and should be made keeping in mind the budget of customer.
2. Trying to incorporate audio into OTL camera light system for ease of experienced doctors
3. Public Health Care system has a huge scope and can drastically improve medical situation in our country. Also ,it needs to keep a check on its medical facilities and supplies

Major Challenges

1. Doing project with virtual interaction with mentors and teammates was a bit challenging.
2. In virtual group discussion, many points remain unfolded because of technical limitations.

Work Plan for Next Week

Finding and understanding more modifications to the OTL camera light in order to increase their efficiency. Making the OTL camera light desirable for customer in terms of cost, size and latency.