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SDR Design for HD Video Transmission

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OTHER GROUP MEMBERS

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OBJECTIVES ADDRESSED IN WEEK 3

1. Implemented a basic 2x2 MIMO link.
2. Studied MIMO and wireless channels in-depth.
3. Implemented a Rayleigh fading channel.

HIGHLIGHTS

We were unable to find the required simulink blocks for progressing further, so we decided to switch over to modelling the system via MATLAB code. We also spent a considerable amount of time taking up courses and improving our theoretical base.

NEXT OBJECTIVE

- Upgrade of OFDM to implement channel estimation via pilot carriers
- Translation of block diagram model into code
- Transition from baseband system to a system with passband operations