



COLLEGE OF ENGINEERING, DESIGN, ART &
TECHNOLOGY

SCHOOL OF ENGINEERING

DEPARTMENT OF ELECTRICAL & COMPUTER
ENGINEERING

Assignment 1 b

Setting up a Point to Point Link

Submitted by

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Group Members

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Solution

1. Site survey: Obtain location coordinates and determine the path profile
2. Ensure that there is clear LOS between TX and RX
3. Ensure that 60% of your Fresnel zone is clear of obstacles
4. Determine the f of operation, for long distances use shorter f and vv
5. At the transmitter determine the antenna height, type of antenna, transmit power, transmitter gain
6. At the receiver determine the antenna height, type of antenna, transmit power, receiver gain
7. Calculate the link budget
8. Adjust parameters if necessary
9. Setting up the link
10. Testing of the link