



TOPIC # - TDC - 93

WIRELESS MESH STANDARD IMPLEMENTATION/EVALUATION

BACKGROUND

This project will investigate the applicability of the open-source Wi-Fi EasyMesh standard for off-grid, mobile lunar applications. Students will set up an open-source "PRPL" and implement Wi-Fi EasyMesh to understand its potential for a dynamic extra-vehicular network. This could be critical for enabling communication between spacesuits when a central infrastructure is unavailable.

DELIVERABLES

Develop or attempt to develop a working concept. A report detailing the challenges of development, evaluation techniques, and test results.

DESIGN TEAM PROFILE

NASA MENTOR:	Chatwin Lansdowne (chatwin.lansdowne-1@nasa.gov)
LEVEL:	Undergraduate students of any level
MAJOR/DISCIPLINE:	Computer Science, Computer Engineering, Electrical Engineering, Aeronautical Engineering, Mechanical Engineering
TEAMS:	2
DURATION:	One or Two-Semester Project

