

ViaSat Team Intern Project Description

Project Name: Exede Internet Service Installation Assistance Application

Project Description:

The intern project is to design and prototype a mobile application to assist ViaSat's Exede internet service installers in the field. This will replace a computer-based application. The application will provide subscriber/location specific data, such as skew angle. Potential features include: an inclinometer, a visual pointing tool, and a graphical SNR measurement to complement the audio tone currently used. Team members will share development effort, with one intern specifically responsible for each of the following: architectural design, interfacing with mobile platform components and services, and interfacing with the modem.

A mobile app for installers could potentially

-Shorten installation time by reducing the number of trips up and down the ladder.

-Improve quality of install by providing metrics and audio/visual cues for identifying and troubleshooting issues that may arise.

-Provide reference documentation that is currently available online in situations with limited or no internet access.

-Reduce/streamline the tool set required for installation by providing built-in pointing instruments, note-taking capabilities, etc.

Resource Description:

Engineer 1 Discipline: CS/CE Citizenship Requirement: US Citizen Permanent Resident/F1
 None

Role: Software Architect

Special Skills: 1 Object-oriented programming required

2 Android app development experience preferred

3 UML and design pattern exposure is a plus

Engineer 2 Discipline: CS/CE Citizenship Requirement: US Citizen Permanent Resident/F1
 None

Role: Peripheral/Service Interfaces (GPS, camera, etc.)

Special Skills: 1 Object-oriented programming

2 Experience using web services in app development is a plus

3 Android development is a plus

Engineer 3 Discipline: CS/CE Citizenship Requirement: US Citizen Permanent Resident/F1
 None

Role: Modem Interface

Special Skills: 1 Object-oriented programming

2 Experience using web services in app development is a plus

3 Android development is a plus