MISSION PLANNING IN UNKOWN RF LANDSCAPES

Team 19
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**RF Measurement**
-Ryan Brown

- Efficiently collect packets from transmitters with antennas of varying directions, polarizations, and patterns
- Control receiving antenna’s polarization

**Database & Map**
-Rabih Abifaraj

- Generate and populate database with signal strength data from the first flight
- Analyze data to produce and display an RF field map

**Path & Movement**
-Ricky Hofstra

- Maximize exposure to “friendly” antennas while minimizing exposure to the “enemy” antenna
- Route from start point to end point within limited travel time
- Map route to smooth, quantized quad-copter movement commands