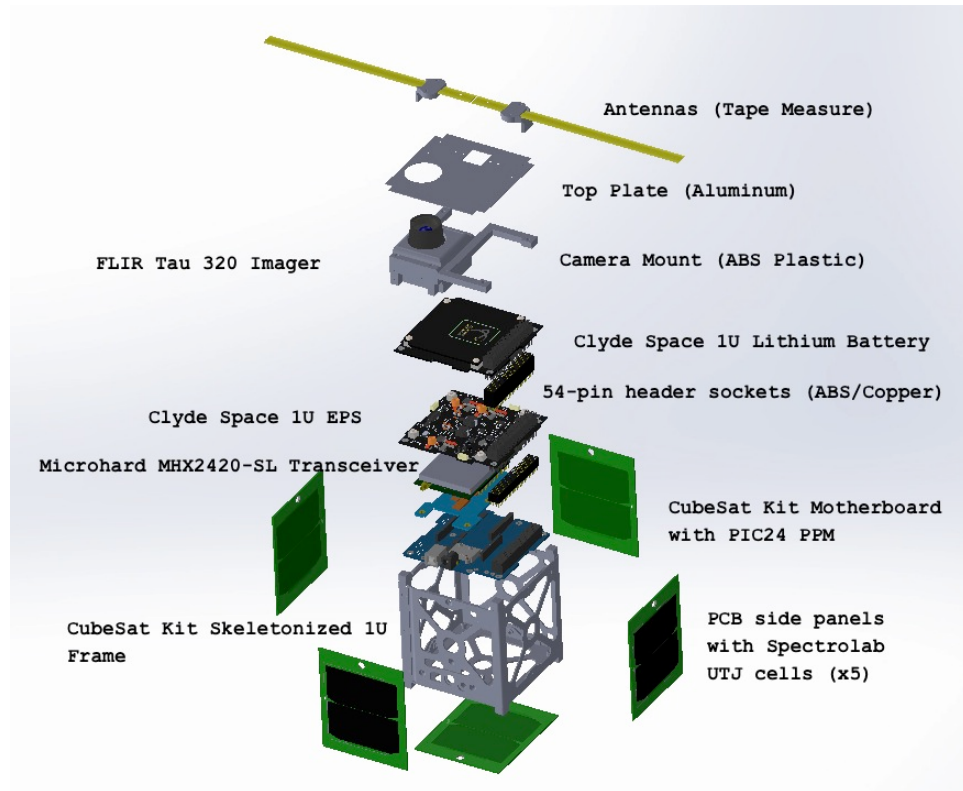


COPPER CubeSat Description

St. Louis University – 1U



COPPER will characterize the use of a commercial off the shelf (COTS) long-wave infrared (LWIR) imager for on-orbit characterization of space systems and earth observation, capture post-separation sequence in LWIR, automatically identify image events, and flight-test a radiation effects monitoring payload for future missions.

The satellite utilizes a communication system which is necessary to uplink commands and downlink data containing spacecraft health as well as payload test results.