

Abstract Submitted  
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**Rhodes College CubeSat Program: RHOK-SAT** OLIVIA KAUFMANN, Rhodes Coll, RHODES AEROSPACE ENGINEERING CLUB TEAM — The Rhode College CubeSat program (RHOK-SAT) is a partnership with the University of Oklahoma which is currently developing a 1U CubeSat. The satellite has an intended launch date of June 2023 and will fly in a Low Earth Orbit (LEO). RHOK-SAT will carry and space test novel photovoltaic cells being developed by the University of Oklahoma's Photovoltaic Materials and Devices group. This lightning talk will provide a general overview of the project including a look at the work that has occurred up to this point as well as some of the next steps. It will focus especially on the development of a ground station on the Rhodes campus, which will connect to the satellite to receive data from an onboard computer. The ground station includes a radio and transceiver which is prepared to downlink data from the satellite as it passes over. This talk will also briefly cover some of the on board hardware, like a computer or AMU chip which will help the satellite communicate with the ground station.

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