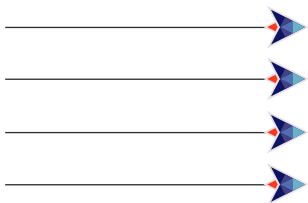


## PROJECT BITFLIP



**SCHOOL:** NEWCASTLE HIGH SCHOOL

**LOCATION:** NEWCASTLE, WY

**FLIGHT PROVIDER:** UP AEROSPACE

**GRADES:** HIGH SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our team wants to detect bit flips through the atmosphere and in microgravity. Bit flips are something known to happen within computers on Earth, and we suspect that without the shield of the atmosphere, the chances of it happening will increase. Our experiment uses a microprocessor to detect bitflips and a Geiger counter to detect radiation levels.