



MAKING COMPUTERS SAFE: GALLIUM NITRIDE'S ABILITY TO RESIST ALPHA RADIATION



SCHOOL: NORTHWOOD HIGH SCHOOL

LOCATION: IRVINE, CA

FLIGHT PROVIDER: WORLD VIEW

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

The proposed experiment is to use gallium nitride MOSFETs and measure their ability to protect parts sent to space against radiation within the stratosphere while having an active comparison against more commonly used silicon MOSFETs. Both MOSFETs will run a code, the results of which will be scanned for discrepancies to measure which material is better fit to repel radiation.