

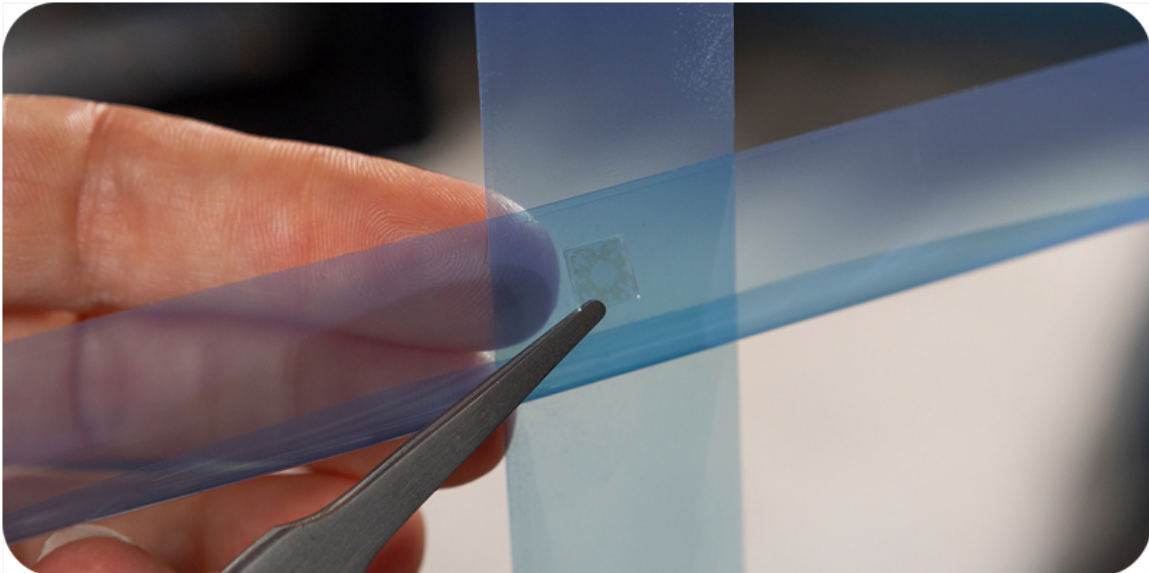
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GTRI Signal
MONTHLY RESEARCH NEWSLETTER

GT Georgia Tech.
Research Institute

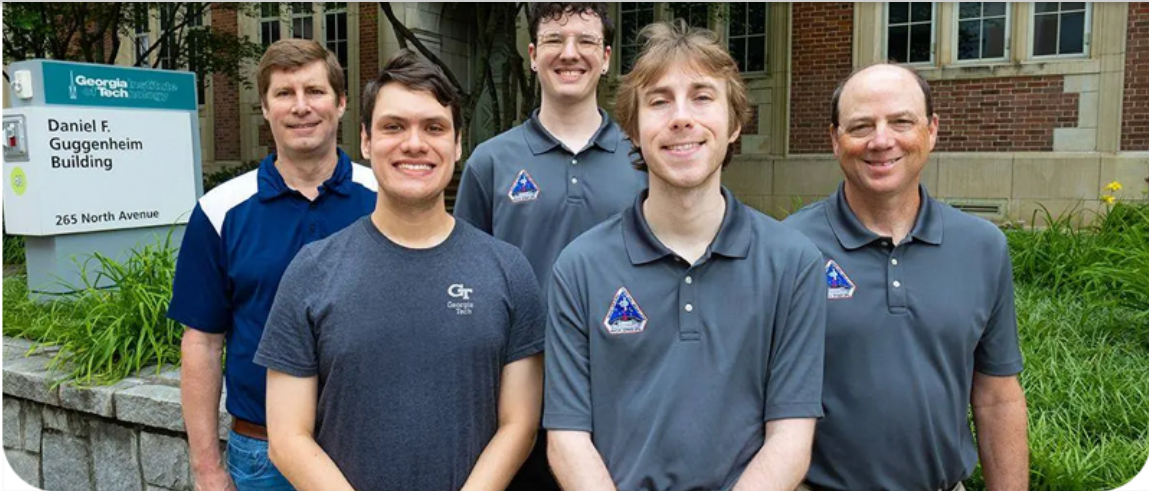
OCTOBER RESEARCH NEWS

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[**New Battlefield Obscurants Could Give Warfighters a Visibility Advantage**](#)

Clouds of tiny structures that are lighter than feathers – and whose properties can be remotely controlled by radio frequency (RF) signals – could one day give U.S. warfighters and their allies the ability to observe their adversaries while reducing how well they themselves can be seen. Using miniaturized electronics and advanced optical techniques, this new generation of tailorable, tunable, and safe battlefield obscurants – which could be quickly turned on and off – could provide an asymmetric visibility advantage.



Students Controlling Interplanetary Spacecraft Millions of Miles From Campus

Right now, approximately 4 million miles from Earth, a small spacecraft the size of a briefcase is racing away from the planet by about 40,000 miles every day. And each day, sometimes twice, a team of 10 Georgia Tech undergraduate students communicate with it to monitor its health, respond to anomalies, and use its instruments for scientific studies. Not only are they controlling the sun-circling satellite, but they also own it. NASA's Jet Propulsion Laboratory (JPL) in Southern California has given Lunar Flashlight to Georgia Tech, making it the only higher education institution in full control of an interplanetary spacecraft. GTRI researchers performed the integration and testing of the spacecraft and continue to be involved in orbital operations and experiments.



GTRI Names Terence Haran Director of Electro-Optical Systems Lab

GTRI has named Terence Haran as the new director for the Electro-Optical Systems

member in 2002 after completing his bachelor's degree in Electrical Engineering at Georgia Tech.

FEATURED



[Learning Never Stops for GTRI Researcher Alan Nussbaum](#)

As GTRI Principal Research Engineer Alan Nussbaum can tell you, the value of an education never gets old. At 72 years old, Nussbaum recently earned his Ph.D. from the Georgia Institute of Technology (Georgia Tech) in computer science with a minor in electrical engineering. Although the degree took him 11 years to complete, Nussbaum said the concepts he learned and the lifelong relationships he formed made it all worth it.

GTRI PEOPLE



[Milestones Along the Pinnacle Journey of Erick Maxwell](#)

Awards are often the “gold at the end of the rainbow” of an arduous journey. For Erick Maxwell, a Principal Research Engineer in the Aerospace, Transportation & Advanced Systems Laboratory (ATAS) at GTRI, the prestigious National Society of Black Engineers’ (NSBE) “Distinguished Engineer of the Year” Award was major milestone along a journey that has been about more than just his engineering accomplishments.

GTRI IN THE NEWS

[IEEE’s Honor Society Gave This Boston University Student Tools to Succeed](#) (IEEE Spectrum)

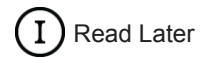
FEATURED VIDEO



Principal Research Engineer Erick Maxwell on the GTRI High School Internship Program and the importance of STEM@GTRI.

For more research news and features, please visit the [GTRI Newsroom](#)

GTRI is hiring. Learn more at [GTRI.gatech.edu/careers](https://gtri.gatech.edu/careers)



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