“You see **real growth** in many aspects of the students’ **professional demeanor** along with their ability to **teach themselves** how to learn whatever they need to **move the project along**.”

Professor James McClellan
Electrical & Computer Engineering

Current VIP Teams
www.vip.gatech.edu

- 21st Century Humanities
- 2D Heterostructure Synthesis
- Academic Resilience
- Active Safety for Autonomous & Semi-Autonomous Vehicles
- Advanced Graphene Battery Technology
- Agile Communication Architectures
- AquaBots
- Augmented Reality Experiences
- Automated Algorithm Design
- Automotive LIDAR
- Bee-Snap
- Big Data & Quantum Mechanics
- BioBots
- Bio-inspired Network Dynamics & Geomechanics
- Brain Trauma Assessment Protocols
- ChemFlow
- Chip Scale Power & Energy
- Civic Design
- Collaborative Air, Sea, & Underwater Autonomous Vehicles
- Concussion Connect
- Configurable Computing & Embedded Systems
- Curiosity-driven Frugal Science
- Data-Driven Education
- Digital Deliberation
- EcoCAR
- Embedded System Cyber Security
- EnerCage
- Engineering for Smart Cities
- Engineering for Social Innovation
- Evolutionary Mechanics
- Exploratory Robotics
- Future Technology for Sports
- Gravitational Wave Astrophysics
- GT Mobile STEM Lab
- GT Motorsports
- GT Off-Road
- GT Solar Racing
- GT USLI Rocket
- GTRI Agricultural Robotics
- Hands-on Learning
- Health Informatics on FHIR
- HumaniTech
- Humor Genome
- Intelligent Digital Communication
- Intelligent Platform for Crowdsourcing
- Intelligent Transportation Systems
- Intelligent Tutoring Systems
- IoT in Health
- Lightning from the Edge of Space
- Living Dynamical Systems
- M.A.R.S.
- Patagonia
- Retrofuturistic Hardware
- RoboSense
- Robotic Human Augmentation
- Robotic Musicianship
- Secure Hardware
- Smart and Connected Bioelectronics
- Smart City Infrastructure
- Smart*3 Makerspaces
- Stadium-IoPT
- STEMComm
- Subsurface Energy
- TerraBots

VIP Innovation Competition participants

VIP EcoCAR Team

Creating the Next Talent Pipeline

Real-World Challenges

Enhanced Professional Skills

Multidisciplinary and Cross-Cultural Experience

Applied Expertise within Field

www.vip.gatech.edu · vip@gatech.edu
VIP students report higher scores compared to peers in their:
- Ability to work in a multi-disciplinary team
- Ability to work with individuals from diverse backgrounds
- Understanding of technology applications relevant to their field of study

VIP Student Benefits
- Learn to use industry tools and standards
- Connect theory and practice
- Gain deeper experience in field of study
- Develop and practice professional skills
- Acquire leadership and project management experience
- Focus on real-world challenges
- Work with people from different disciplines, cultures and ranks

THE VIP EXPERIENCE

VIP students participate in large-scale, long-term, multidisciplinary research teams – like those in industry – that are embedded in the innovative work of faculty and their graduate students.

Teams work like small start-up companies:
- New students join a project in process and are trained by existing team members.
- Students contribute their own ideas and expertise.
- Students work with colleagues from different fields to solve problems.
- Teams have management structures and opportunities for advancement.

“Students are introduced to a real-world problem that is both complex and vague but requires an innovative and practical solution. These problems are not textbook problems and the students interact with real clients and stakeholders.”

Nadia M. Viljoen
VIP Alumna

What is the difference...
...between VIP and traditional undergraduate research programs?
All are great experiences! Differences:
⇒ VIP students work in large teams and have opportunities to grow into leadership roles.
⇒ VIP teams are multidisciplinary and focus on real-world challenges.

... between VIP and PURA?
(Presidents Undergraduate Research Award)
VIP is a great feeder for PURA!
⇒ PURA students are paid for doing research with a professor. To apply, students propose a project with a professor.
⇒ VIP students can get to know a project and professor. Then they can apply to PURA with their VIP professor and continue their work with their teams.

... between VIP and CREATE-X?
Both are excellent programs!
⇒ CREATE-X projects are based on student ideas and focus on entrepreneurialism.
⇒ VIP projects are homed in faculty research. Projects may still be commercialized, and students retain intellectual property rights.

... between VIP and Co-op?
Both are extremely valuable!
⇒ VIP students are on campus and earn VIP credits along with their other course credits.
⇒ VIP teams work like start-up companies, with opportunities for advancement.