

# MICHAEL A. BICK

350 Ferst Drive  
329889 Georgia Tech Station  
Atlanta, GA 30332-1295  
US Citizen

(747)-227-6723  
michael.bick@gatech.edu

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## EDUCATION

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## ACADEMIC PROJECTS

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AUG 2016-PRESENT

### GT Motorsports | POWERTRAIN TEAM MEMBER

- Simulating engine dynamics with the eventual goal of increasing efficiency and low-end torque by lowering power-band
- Designing and manufacturing improved camshaft to match optimal lift profile

AUG 2016-PRESENT

### Robojackets | TEAM MEMBER

- Lead design of a 3lb combat robot including CAD, chassis analysis, and weapon optimization
- Manufactured robotic components using precision machinery including CNC mills, lathes, and waterjets
- Created autonomous path planning and motion profile algorithm using Matlab

AUG 2011-JUN 2016

### MilkenKnights FRC Team | TEAM CAPTAIN

- Managed the 6-week design and construction of a robot, including rapid prototyping, CAD, manufacturing, and control dynamics
- Created top-down Solidworks models of transmissions, gearboxes, and complex linkages
- Implemented position PID, velocity PID, vision tracking, motion profiles, and path following
- Trained students in CAD and operating precision machinery including a mill, lathe, and CNC router

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## TECHNICAL SKILLS

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