Michael A. Bick

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Education

Aug 2016 - Present — **Georgia Institute of Technology**, Atlanta, GA
Mechanical Engineering, GPA 3.78/4.0
Sophomore, Expected Graduation June 2020

June 2016 — **Milken Community High School**, Los Angeles, CA
AP Courses: Calculus, Physics, Computer Science, Statistics, Chemistry, Biology
Honors Roll
National Honors Society

Academic Projects

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 to compete in the Motorama event, including CAD, chassis analysis, and weapon optimization. Manufacturing the robot using precision machinery including mills and lathes, for the competition in February.

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 programming. Designed transmissions, gearboxes, chassis, and complex linkages in Solidworks. Implemented position PID, velocity PID, vision tracking, motion profiles, and path following. Trained students in CAD and operating precision machinery including mill, lathe, and CNC router. Established sponsorship ties with local manufacturing businesses.

Sept 2014-Jun 2016

ASCE Bridge Building Team |Team Captain

Lead design, analysis, simulation, and construction of a three foot, one pound popsicle stick bridge that withstood over 950 pounds of force.

Sept 2014-Jun 2015

Conrad Spirit of Innovation |Programming/Electrical Lead

Designed, wired, and programmed LIDAR tracking system for a belt than warned the visually-impaired of dangerous obstacles.

Jun 2012-Jun 2014

Edge Systems Design |Mechanical Engineer

Designed base frame and X-axis travel system for an affordable CNC machine targeted at the hobby market. Helped manage funding and operation of a startup.

Technical Skills

Software:	Solidworks, Autodesk Inventor, Adobe Illustrator, Word, Excel
Languages:	MatLab, Java, Arduino, HTML, CSS, SASS, Android, Python, LaTeX
Machines:	Haas CNC, Manual Mill, Manual Lathe, Laser Cutter, Waterjet

Awards & Honors

Apr 2016	$2^{nd}/42$	FIRST Robotics Orange County Regional
Mar 2015	$3^{rd}/41$	FIRST Robotics Ventura Regional
Mar 2015	$3^{rd}/53$	FIRST Robotics Utah Regional
Oct 2014	International	Conrad Spirit of Innovation Semi-Finalist
Mar 2013	$1^{st}/65$	FIRST Robotics Los Angeles Regional