

Justin Ma

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia

Projected Graduation: December 2018

Candidate for Bachelor of Science in Mechanical Engineering

GPA: 3.44

Dean's List: Fall 2014, Spring 2015, Fall 2015, Spring 2016

EXPERIENCE

Georgia Institute of Technology, Atlanta, Georgia

March 2016 - Present

Undergraduate Aerospace Research Assistant

- Performed maintenance and assembly of an experimental super rapid compression machine
- Installed Kistler data acquisition sensors and equipment

Gungamers, Makati, Philippines

March 2015 - Present

Lead Engineer

- Designed a pneumatic powered, recoil-simulation laser gun for consumer use
- Designed a laser-activated, timed target system
- Advised employer on manufacturability, surface finishing, lubrication, and pneumatic systems

Vertically Integrated Projects, I-Natural Team, Georgia Tech

August 2015 – December 2015

Team Member

- Collaborated in research and development of a robot-human interface for disabled children
- Designed and 3D-printed functional enhancements for a ROBOTIS Darwin-Mini Robot
- Worked with ROBOTIS OpenCM microcontroller and R+ Motion software

ORGANIZATIONS

Robojackets, Battlebots Division, Georgia Tech

September 2014 - Present

Senior Mechanical Design Team Member

- Represented the U.S in Japan for the International Robot Sumo Tournament 2015
- Project lead for a 30 lb. class robot, assisted in design of the weapon and chassis
- Supervised junior members during manual machining and CNC operations

ASME, Georgia Tech Chapter

August 2015 - Present

SKILLS

Manufacturing:

- Haas VF-2 CNC Mill and Romi EZ-Path CNC Lathe programming, setup, and operation
- Low voltage circuit design and fabrication
- 3D Printer (FDM) and OMAX Waterjet assembly, setup, and operation

Software:

- SolidWorks 2014/2015, CSWA certified by SOLIDWORKS
- Autodesk Inventor 2015/2016 and HSM Pro 2016 CAM package
- NI LabVIEW 2014
- Microsoft Office Suite
- MATLAB