

# RICHARD HU

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## EDUCATION

**Undergraduate 3rd Year Mechanical Engineering** **September 2013 to Present**  
**University of Toronto St. George Campus**, Toronto, ON **CGPA: 3.74/4.00**

- Specialize in Bioengineering and Mechatronics. Robotics and Mechatronics minor

**Basic Machining Course** **March 2015**  
**George Brown College**, Toronto, ON

### Grants and Awards

- Shell Canada Limited Engineering Scholarship **July 2015**
- University of Toronto Excellence Award **June 2015**
- Dean's Honour List **June 2014**

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## TECHNICAL SKILLS

**Technical Programs:** Arduino, ANSYS, ImageJ, ImageMagick, MiniTab, MatLab, PSpice, SolidWorks,

**Microsoft Office:** Microsoft Word, PowerPoint, Excel, Publisher, Outlook

**Language:** Chinese, English

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## JOB EXPERIENCE

**Spray and Atomization Lab of Nassar Ashgriz** **June 2015 to September 2015**  
**Independent Researcher**

- Designed and built experiments from scratch for droplet breakup observation under jet impingement.
- Designed and developed Nikon DSLR, flash and solenoid valve synchronization system with Arduino.
- Gathered quantitative datum on droplet breakup modes, and performed statistical analysis of the datum using Minitab, ImageJ, Imagemagick and Powershell.
- Discovered and classified 13 new droplet breakup phenomenon.

**New Start** **August 2014 to September 2015**  
**Tutor**

- Tutored a small groups of students. Ranged from high school, to 2nd Year University of Toronto students in subjects such as English, Physics, Chemistry, and Calculus.
- Counseled students in defining study goals and formulate personal study methods.

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## DESIGN EXPERIENCE

**CNC Milling Machine** **September 2014 to December 2014**  
**2<sup>nd</sup> Year Mechanical Engineering Design Project**

- Designed a CNC milling machine using SolidWorks in a team of 5.
- Lead the group by coordinated workflow, plan schedule, internal milestones, and foster harmonious team dynamics.

**Cricket Canada Sunnybrook Park Pavilion Renovation** **January 2014 to May 2014**  
**1<sup>st</sup> Year APS112 Design Project**

- Designed a 2nd floor's plan for the renovation of Cricket Canada's Toronto head quarter in a team of 5.
- Drove the team to meet deadline and make sure a rigorous design schedule was followed.
- Reviewed all the report written by the team to ensure client standards are met.

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## EXTRA-CURRICULAR

**Skule Stress Release Club** **January 2015 to May 2015**  
**Vice President**

- Organized and executed events in a team of 13 to relieve stress of engineering students.
- Collaborated with club president to apply funding at UTSU funding committee.

**University of Toronto Engineering Kompetition (UTEK) Junior Design** **January 2015**  
**Competition Award Winner/Team Leader**

- Lead a team of 4 to compete against 26 other engineering teams to create a design and present.
- Received "Best Innovation Award" and "Best Prototype Award" certificates.