

# 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, SolidWorks, ANSYS, MiniTab, PSpice, ImageJ, ImageMagick
- 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.