

# JIANDI WEI

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## SUMMARY

- Strong skills in product design ,3-D CAD modeling CFD, FEA, control system design, programing, data analysis, machine learning

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## EDUCATION

**Mechanical Engineering (M.Eng), UC Berkeley**, Berkeley, California [August. 2016-June 2017]  
**Mechanical Engineering (Masc),University of Toronto**, Toronto,Canada [January 2016-May 2016]  
GPA 3.67 100% Tuition waiver  
**Mechanical Engineering (B.S.), University of Birmingham** ,Birmingham, England [August 2013-June 2015]  
GPA: 4.0/4.0 Overall Rank: 1/101 First class honor degree  
**Mechanical Engineering (B.S),Huazhong University of Science and Technology**, Wuhan,China [August 2011-July 2013]  
GPA: 3.41/4.0

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## EXPERIENCE

**Design engineer, Individual Capstone Project, *Mat Clean Challenge*, MABEY construction company**, Birmingham, England (Jan. 2015-May 2015)

- Created a function tree, a specification sheet, and a Gantt chart for this project
- Visited work sites to understand customer's needs
- Designed modules including main frame, 2-step cleaning process
- Integrated modules including capacitive sensors, step motors, DC motors, conveyors ,actuators and a controller
- Built a prototype using SolidWorks
- Selected materials for components using Ces EduPack
- Did an environmental impact analysis and cost analysis
- Mastered skills in technical writing and presented the project results to sponsors

**Team leader, Redesign of Aston martin DB9**, Aston Martin Lagonda Limited, Birmingham,England (June.2014-July.2014)

- Disassembled a used Aston martin DB9 into modules
- Reviewed and identified the function of components in each modules
- Researched market to understand customers' needs for car appearance
- Modified current DB9 car shell to reduce aerodynamics friction
- Used SolidWorks to build prototype and tested it using ANSYS
- Present project deliverables professionally to sponsors and supervisor

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## HONORS

**25% tuition waiver** for two years, awarded by School of Mechanical Engineering, University of Birmingham [September,2013]

- For outstanding student from China

**MIE fellowship (100% Tuition waiver plus \$15000 per year)**, School of Mechanical and Industrial Engineering, University of Toronto [September,2015]

**Professor Frank Wallace Scholarship (\$3000)** , awarded by School of Mechanical Engineering, University of Birmingham [October 2014]

- The Scholarship will only be offered to the highest achieving academic student

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## SKILLS & PERSONAL INFORMATION

- Software Skills: Solidworks, MATLAB,,Python,Octave, C++, CES EduPack, ANSYS Office
- Languages: English, Mandarin