

# Sun, Ruoran (Lauren)

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## EDUCATION

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- University of California, Los Angeles**, Los Angeles, CA Sept. 2016 – March 2018
- M.S. Degree in Mechanical Engineering
- Xi'an Jiaotong University**, Xi'an, China Sept. 2012 - June 2016
- B.Eng Degree in School of Energy and Power Engineering
  - Prize of “Outstanding Student” recipient (bestowed to top 10% students)
  - Honor Scholarship recipient for 4 consecutive years (bestowed to top 20% students)
- National Central University**, Taoyuan, Taiwan Feb. 2015 - June 2015
- Exchange Student in Department of Mechanical Engineering

## INDUSTRIAL EXPERIENCE

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- Mechanical Intern at *Princetel, Inc.***, Princeton, New Jersey June 2017 - Sept. 2017
- Built hundreds of 3D models from 2D drawings with SolidWorks.
  - Modified Hybrid Slip Ring parts and shipping fixture according to requests from our client.
  - Involved in ongoing Slip Ring projects, designed parts of both Hybrid Slip Rings and Fiber Optics Rotary Joints (FORJs) and operated the Object 3000 Prime for rapid prototyping.
- Summer Intern at *Shanghai Boiler Works Ltd.***, Shanghai, China June 2015 - July 2015
- Learned the manufacture and operation of boiler
  - Designed a pulverize coal boiler under certain condition

## ACADEMIC EXPERIENCE

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- Rapid Prototyping Project**  
*University of California, Los Angeles*, Los Angeles, CA Jan. 2017 - Apr. 2017
- Rapid prototyping a creative and complex toy in manufacture
  - Create 3D models by SolidWorks
- Robot DARwIn mini Control**  
*University of California, Los Angeles*, Los Angeles, CA Oct. 2016 - Sept. 2016
- Design and achieve the motion of the robot
  - Inverse kinematics and forward kinematics analysis by MATLAB
- Research on Treatment of Sewage Sludge Using Supercritical Water Oxidation(SCWO) Technology**  
*Energy and Environment Laboratory, Xi'an Jiaotong University*, Xi'an, China Sept. 2015 - June 2016
- Experiment and analyze the products of SCWO under different reaction conditions
  - Originally propose and prove the “segment oxidation method”
- Pulverize Coal Boiler Design under Certain Condition**  
*Shanghai Boiler Works Ltd.*, Shanghai, China June 2015 - July 2015
- Thermodynamic calculation and analysis
  - MATLAB program to conduct iterative calculation.
  - Engineering drawing with AutoCAD

## SKILLS

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SolidWorks, Inventor, Ansys, MATLAB, JavaScript, Java