

# Faisal Kamal

[Faisal.kamal@kaust.edu.sa](mailto:Faisal.kamal@kaust.edu.sa)

## Education

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### **KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KAUST)**

Master's Degree, Mechanical Engineering

**THUWAL, KSA**

August 2018 - Expected Graduation Spring 2020

### **UNIVERSITY OF ROCHESTER**

Bachelor of Science, Mechanical Engineering

**ROCHESTER, NY**

September 2014 - May 2018

## Projects

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### **Physical Science and Engineering Department, KAUST**

**Thermal Non-Conventional Heat Engines**

**THUWAL, KSA**

**August 2018 - Present**

### **Mechanical Engineering Department, University of Rochester**

**Human Powered Vehicle with Professor Christopher Muir**

**ROCHESTER, NY**

**January 2018 - May 2018**

- Designed, modeled, simulated, and built parts of a human powered vehicle to participate in a racing competition organized by the American Society of Mechanical Engineers.
- Fabricated parts of the frame of the vehicle and worked on fairing fabrication using CNC.

## Experiences

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### **Summer Undergraduate Researcher, KAUST**

**Thermomechanical Characterization of Glass-reinforced Polypropylene**

**THUWAL, KSA**

**May 2017 - August 2017**

- Conducted thermal and mechanical analysis on fibrous thermoplastic composite material.
- Used analytical devices (e.g. DSC, DIL, FBG) to collect data for the analysis.

### **Summer Undergraduate Researcher, University of Texas at Austin**

**Thermoplastic Conductive Adhesives use in Stretchable Electronics**

**AUSTIN, TX**

**July 2016**

- Tested the efficiency of electrical conductivity in a specified adhesive given different metal alloys.
- Analyzed the compatibility of different metal alloys to be adhered to piezoelectric material.

### **Summer Undergraduate Research Intern, North Carolina State University**

**Unsteady Aerodynamic Flow Visualization**

**RALEIGH, NC**

**June 2015**

- Worked on fluent simulation using ANSYS.
- Experimentally documented the flow pattern at the tail of an airfoil using a soap film experiment.

## Honors and Awards

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### **KAUST Gifted Student Program**

**June 2011 - May 2018**

- Selected from a very competitive pool of Saudi high school students to join KAUST Gifted Students Program for a full-funded scholarship to complete my undergraduate studies in the US.

## Skills

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Programming: Matlab, Mathematica.

Computer Aided Design/Modeling/Engineering software: SolidWorks, NX, ANSYS.

System Design: LabVIEW, Arduino.

Microsoft Office: Word, PowerPoint, Excel.

Basic Fabrication: Cutting (Metal sheets, Tubes, bars), Notching, Milling/lathe work, Mig welding.

Lab analytical techniques: Gas chromatography, spectrophotometry, and mass spectrometry, dilatometry, DSC.

Languages: Arabic (native), English (proficient), French (intermediate).