

# Gowtham Kuntumalla

506 S Fourth St #104, Champaign, IL | (217) 518-3893 | gowtham4@illinois.edu | gowthamkuntumalla.github.io

## ABOUT

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A passionate thinker and go-getter with a dynamic personality. Proficient in Team Management, Scientific Programming and Prototype Fabrication. Looking for challenging roles with widespread impact.

## EDUCATION

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- **University of Illinois at Urbana-Champaign** **Champaign, USA**  
*Master of Science in Mechanical Engineering;* *August 2018 – Present*
  - **Project:** Creating CAD models and fabricating a manufacturing setup for novel hybrid Metal-Polymer Heat Exchanger
  - **Coursework (in progress):** MEMS-NEMS Theory & Fabrication, Mfg Data and Quality Systems
- **Indian Institute of Technology-Bombay** **Mumbai, India**  
*Bachelor of Technology in Mechanical Engineering with Minor in Computer Science* *Aug 2014 – July 2018*
  - **Coursework:** Machine Learning, Data Structure and Algo, Collaborative Eng., Heat Transfer, Cryogenic Engineering, Manufacturing Automation, Mechanical Measurements, Industrial Engineering & Operations Research, Manufacturing Processes & more. **CPI: 9.32/10.0**

## HONORS AND AWARDS

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- Awarded Kishore Vigyan Protsahan Yojana(KVPY) scholarship by Department of Science and Technology, India 2014
- Ranked among top 10 in the Mechanical Engineering undergraduate class of 2018

## WORK EXPERIENCE

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- **Washington University in St.Louis** **St.Louis, US**  
*Summer Research Intern, Department of Energy and Chemical Engineering* *May – July 2017*
  - Undertook comprehensive literature review on fractals, aggregation processes and wrote a protocol for conducting computer simulations on high performance computing (HPC) cluster
  - Analysed effects of change in defining parameters like volume fraction on kinetics of the sol to gel transition
- **Techno-Managerial Role** **Mumbai, India**  
*Technical Councillor, Student Council of Hostel 4, IITB* *April 2016 – March 2017*
  - Awarded Color and Special mention for significant contribution to the development of hostel culture
  - Played an Instrumental lead role in achieving the coveted **1st/16** position in Intra-college annual general championship

## TEACHING EXPERIENCE

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- Teaching Assistant for the courses "Introduction to Statics", "Engineering Mechanics" and "Differential Equations"
- Responsible for mentoring and conducting tutorial sessions for 60 students in each course, Spring 2017 – Fall 2018

## UNDERGRADUATE PROJECTS

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- **Wearable and Non-Invasive Glucometer** **Jan – May 2018**  
*Product Oriented Project guided by Prof. B Ravi , IIT Bombay*
  - Developed a compact prototype that measures epi-skin glucose painlessly via Diffuse Reflectance Infrared Spectroscopy
  - Delivered Proof of Concept (PoC) with good correlations to commercially available pricking based glucometers
  - Received critical acclaim and accolades from the top doctors of Mumbai in a medical device expo
- **2D Particle Image Velocimetry (PIV)** **April – June 2016**  
*Programming Project: Prof. Amit Agrawal, IIT Bombay*
  - Developed computer code on C++ which is 100% faster than similar software on MATLAB. It performs the 2D digital evaluation of flow velocity using FFT routine of Cross Correlation

## TECHNICAL SKILLS

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- **Soft Skills:** MATLAB, Solidworks, ANSYS Mechanical, AutoCAD, 3D Printing, PhotoLithography, Financial Investing
- **Programming :** Python (+ Machine Learning), C++, HTML, Linux Shell,  $\text{\LaTeX}$