

# Sriram Krishnaswamy

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sriramkswamy.github.io

## EDUCATION

2016*	M.S Aerospace Engineering	University of Florida, Gainesville	GPA: 3.00/4
2014	M.Sc.(Hons.) Chemistry & B.E.(Hons.) Mechanical Engineering	BITS-Pilani, Hyderabad Campus	Cum. GPA: 7.54/10 Major GPA: 8.07/10

## EXPERIENCE

<b>Masters' Research</b>	<b>Stochastic Systems Lab, UF</b>	<b>(Oct 2014 - present)</b>
<ul style="list-style-type: none"><li>Applying Chance Constrained Optimization techniques</li><li>Determination of risk allocation during cost optimization of Flood Control in a reservoir</li><li>Extension of the techniques to develop a new and innovative Chance constrained optimal control</li></ul>		
<b>Bachelor's Thesis</b>	<b>Indian Institute of Technology, Madras</b>	<b>(July 2013 - May 2014)</b>
<ul style="list-style-type: none"><li>Automating the CFD analysis of aerofoils using Python and Scheme</li><li>Intelligent automation with system level Python and Scheme data interpretation</li><li>Intelligent post-processing done with numpy, scipy and matplotlib packages</li></ul>		
<b>CanSat competition 2013</b>	<b>AAS, AIAA and NASA</b>	<b>(Jan 2013 - June 2013)</b>
<ul style="list-style-type: none"><li>Led the team representing BITS-Pilani, Hyderabad Campus</li><li>Successfully designed, built and launched a "Can Satellite"</li><li>Raised a sponsorship of \$1,500 for the same</li></ul>		
<b>Term Project</b>	<b>BITS-Pilani, Hyderabad Campus</b>	<b>(Aug 2012 - Dec 2012)</b>
<ul style="list-style-type: none"><li>CFD analysis of Flow control in a compressor cascade</li><li>Studied the flow separation spectrum for a NACA4421 aerofoil</li></ul>		
<b>Summer Intern</b>	<b>Indian Institute of Science, Bangalore</b>	<b>(May 2012 - July 2012)</b>
<ul style="list-style-type: none"><li>Vibrational analysis and optimization of Human body models</li><li>Created control systems using SimuLink and Matlab to study the bodies under excitation</li><li>Mathematically modelled the bodies as lumped parameter models</li></ul>		
<b>Hovercraft Design</b>	<b>BITS-Pilani, Hyderabad Campus</b>	<b>(Jan 2012 - May 2012)</b>
<ul style="list-style-type: none"><li>Designed, analysed and fabricated a single seater Hovercraft capable of lifting a person of 80 kgs</li><li>Raised a sponsorship of INR 15,000 for the equipment and testing as the treasurer of collegiate SAE Chapter</li><li>Successfully completed manned tests for levitation</li></ul>		

## PUBLICATIONS

- Computational Investigations on the Effects of Gurney Flap on Airfoil Aerodynamics* by Shubham Jain, N.Sitaram and Sriram Krishnaswamy in **International Scholarly Research Notices**
- Exhaustive analysis of Gurney flap as a passive control Mechanism* by Sriram Krishnaswamy, Shubham Jain and N.Sitaram in **Fluid Mechanics and Fluid Power**, IIT Kanpur, December 2014
- Building an Automation Environment for CFD Analysis of Aerofoils using Python and Scheme* by Sriram Krishnaswamy and N. Sitaram in the **Journal of Advanced Research in Applied Mechanics & Computational Fluid Dynamics**

## RELATED COURSEWORK

### GRADUATE

Fluid Mechanics 1  
Fluid Mechanics 2  
Control Systems  
Gas Turbines  
Compressible Flow

### UNDERGRADUATE

Numerical Methods  
Thermodynamics  
Computer Programming  
Linear Algebra  
Calculus

## TECHNICAL SKILLS

### Proficient

MATLAB, Python,  
ANSYS, Git, LaTeX,  
Unix/Linux

### Knowledgeable

C/C++, Windows, Bash

### Familiar

HTML/CSS, OpenFOAM