Sriram Krishnaswamy

+1 (352) 872-8712
sriram.krish@ufl.edu
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

Masters' Research **Stochastic Systems Lab, UF** **(Oct 2014 - *present*)**

- Applying Chance Constrained Optimization techniques
- Determination of risk allocation during cost optimization of Flood Control in a reservoir
- Extension of the techniques to develop a new and innovative Chance constrained optimal control

Bachelor's Thesis **Indian Institute of Technology, Madras** **(July 2013 - May 2014)**

- Automating the CFD analysis of aerofoils using Python and Scheme
- Intelligent automation with system level Python and Scheme data interpretation
- Intelligent post-processing done with numpy, scipy and matplotlib packages

CanSat competition 2013 **AAS, AIAA and NASA** **(Jan 2013 - June 2013)**

- Led the team representing BITS-Pilani, Hyderabad Campus
- Successfully designed, built and launched a "Can Satellite"
- Raised a sponsorship of $1,500 for the same

Term Project **BITS-Pilani, Hyderabad Campus** **(Aug 2012 - Dec 2012)**

- CFD analysis of Flow control in a compressor cascade
- Studied the flow separation spectrum for a NACA4421 aerofoil

Summer Intern **Indian Institute of Science, Bangalore** **(May 2012 - July 2012)**

- Vibrational analysis and optimization of Human body models
- Created control systems using SimuLink and Matlab to study the bodies under excitation
- Mathematically modelled the bodies as lumped parameter models

Hovercraft Design **BITS-Pilani, Hyderabad Campus** **(Jan 2012 - May 2012)**

- Designed, analysed and fabricated a single seater Hovercraft capable of lifting a person of 80 kgs
- Raised a sponsorship of INR 15,000 for the equipment and testing as the treasurer of collegiate SAE Chapter
- Successfully completed manned tests for levitation

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	Undergraduate
Fluid Mechanics 1	Numerical Methods
Fluid Mechanics 2	Thermodynamics
Control Systems	Mechanics of Solids
Gas Turbines	Linear Algebra
Compressible Flow	Calculus

Technical Skills

Proficient	MATLAB, Python, ANSYS, Git, LaTeX, Unix/Linux
Knowledgeable	C/C++, Windows, Bash
Familiar	HTML/CSS, OpenFOAM