

SIDDHARTH NIGAM (SID)

Siddharth.Nigam@colorado.edu

(603) 261-1843

[linkedin.com/in/sidnigam](https://www.linkedin.com/in/sidnigam)

Education

B.S., Mechanical Engineering, University Honors Program, **GPA: 3.9** University of New Hampshire, Durham, NH
Dual Major in International Affairs, Minor in Applied Mathematics Dean's list 2012-2016, TBP, PIME, ΦBK, ΣΧ

M.S., Mechanical Engineering - Thesis, Graduating May 2018, **GPA: 4.0** University of Colorado, Boulder, CO

Technical Skills

- Certified SolidWorks Associate (CSWA) with a 240/240 in the CSWA Exam.
- OpenFOAM, MATLAB, LaTeX, Python, Microsoft Office, Maple®, Visual Basic, DigXY, and Fortran.

Related Experience

Research Assistant at Turbulence and Energy Systems Lab (TESLa) *Boulder, CO* *Fall 2016-Present*

- Modeling a non-premixed methane fuel turbulent jet flame using OpenFOAM.

Teaching Assistant for Fluids and Statics *Boulder, CO* *Fall 2016-Present*

- Besides holding office hours and review sessions, designed and delivered 4 lectures.

Co-Founder of Social Venture Startup - OASIS *Durham, NH* *2015-2016*

- Conducted computational fluid dynamics research and experimentation to minimize energy usage and cost of aquaponics system to implement in Uvita, Costa Rica. Link <https://youtu.be/ngeP8LvGe4U>

Research Assistant to Dr. Marko Knezevic *Durham, NH* *2015-2016*

- Modified a computational model to analyze residual stresses in Nickel alloy, IN 718.
- Secured a Summer Undergraduate Research Fellowship to fund the research.

Engineering Intern at Center for Coastal and Ocean Mapping *Durham, NH* *Summer 2014*

- Performed laboratory experiments making acoustic and optical measurements of bubbles using a bubble trap to study the fate of methane bubbles from the sea floor.

Engineering Intern at HydroComp *Durham, NH* *January 2014*

- Debugged errors, verified trends and mapped equations for their naval architecture software.

Leadership Experience

Assistant Hall Director at Upper Quad (Randall, Hitchcock, and Devine) *UNH, Durham* *2015-2016*

- First international student Assistant Hall Director at UNH. Supervised 4 Resident Assistants (RAs).

Founder and President of Society of Asian Scientists and Engineers *UNH, Durham* *2015-2016*

President of National Society of Black Engineers *UNH, Durham* *2014-2015*

- Brought companies to the university, wrote proposals, helped raise the average GPA of the chapter by 0.3.
- Organized the largest outreach event, link <http://unh.edu/unhtoday/2015/05/spreading-their-passion-stem>

President of the Indian Subcontinental Students' Association *UNH, Durham* *2013-2016*

- Organized various cultural events including the popular show Diwali: Festival of Lights three times with around 350 people in attendance every time. Link <https://youtu.be/wYHG7IXgWw>

Volunteer Experience

Tutor for Mathematics and Engineering (Solidworks) *UNH, Durham* *2013-2016*

Education Chair for the Peru Project for Engineers Without Borders *Peru, South America* *2012-2014*

- Traveled to Peru in summer 2014 to lay pipelines fixing live bursts and applying theoretical knowledge.

Awards and Achievements

Student Leader of the Year for being deemed the most influential student leader at the University. *2015-2016*

Member of Student Advisory Board representing the Mechanical Engineering class of 2016. *2012-2016*

Student Body Representative of the UNH President's Commission on the Status of People of Color *2013-2014*

Create Your Own Story Award for making a difference. Youngest of the 10 recipients of the award. *Spring 2014*

UNH Presidential and Community Scholarships for academic merit and community involvement. *2012-2016*

A. Kingsbury, K. Higson, and J. Smith Scholarships for outstanding achievement in Engineering. *Spring 2014*