Christopher S. **Minar**

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Interests

- Computational Fluid Dynamics
- Parallel Programming
- Artificial Intelligence

Education

Oregon State University   *Corvallis Oregon*

M.S. in Mechanical Engineering, Focus in Thermal Fluid Science   *September 2014 - December 2016*

- GPA: 3.43/4

Oregon State University   *Corvallis Oregon*

B.S. in Mechanical Engineering   *September 2010 - June 2014*

- GPA: 3.38/4

Experience

Computational Fluid Dynamics Research   *Corvallis Oregon*

Graduate Research Assistant   *September 2014 - December 2016*

- Wrote computational fluid dynamics software to study fluid structure interaction problems using GPUs
- Validated/Verified solvers against published experimental results and solvers
- Tuned algorithms to enhance solver speed
- Published an extended conference abstract and have two additional journal publications pending

Graduate Teaching Assistant   *Corvallis Oregon*

Heat transfer, Intro to thermal fluid sciences   *September 2015 - April 2016*

- Taught thermal fluids concepts and answered questions during office hours
- Prepared and graded tests and quizzes
- Irriated fellow GTAs by writing Python scripts for various mundane GTA tasks and insisting on their use

Turbine Modeling   *Corvallis Oregon*

Graduate Research Assistant   *February 2015 - December 2015*

- Tuned a computational model of a vertical-axis in-pipe turbine to match experimental data
- Balanced model accuracy vs computational expense
- Performed sensitiviy analysis on grid size, time step, pipe radius, inlet conditions, turbulence parameters and more

Composites Testing   *Corvallis Oregon*

Senior Project   *April 2013 - May 2014*

- Designed and tested composite laminates to meet loading and shear requirements
- Manufactured two carbon fiber monocoques
- Communicated with an international team of 70+ members

Skills

Software

- C/C++
- CUDA
- linux/shell
- Python
- Matlab
- Star-CCM+
- Solidworks
- Catia