

Christopher S. Minar

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Interests

- Fluid Dynamics
- Computational Fluid Dynamics
- Parallel Programming

Education

Oregon State University

Corvallis Oregon

B.S. IN MECHANICAL ENGINEERING

September 2010 - June 2014

- GPA: 3.38/4

Oregon State University

Corvallis Oregon

M.S. IN MECHANICAL ENGINEERING

September 2014 - Present

- Focus in thermal fluid sciences
- GPA: 3.44/4

Thesis Work

Computational Fluid Dynamics Solvers

- Wrote serial and parallel versions of code to solve flow around freely moving, 2d, immersed bodies
- Validated solvers against published results and solvers
- Tuned solvers to enhance solver speed

Experience

Turbine Modeling

Corvallis Oregon

LUCID ENERGY

February 2015 - December 2015

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

Composites Testing

Corvallis Oregon

FORMULA SAE

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
- Python
- Matlab
- Star-CCM+
- Solidworks
- Catia

Hardware

- Carbon Fiber Layup
- Instron 5900 Series Testing Equipment