

Kyle Walker

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Summary: I am currently seeking an entry to mid level engineering position in Central Texas. Of particular interest are fields relating to fluid flow and heat transfer.

Experience

Consultant Engineer — CD-adapco, Round Rock, TX

September 2006-Present

Worked independently and within small groups on fluid and heat transfer consulting projects pertaining to many industries. Communicated CFD results and design suggestions to clients often unfamiliar with the relevant physics and terminology. Regularly performed Pro-Star and Bash shell scripting. Some projects completed within the last year: thermal automobile underhood analysis, external automobile aerodynamics, radiator fan, heat exchanger system, bearing lubrication, centrifugal pump, blood flow, intake manifold transient analysis, HVAC rainwater flooding

Intern — SHW Group, Austin, TX

January 2006-September 2006

Performed various activities relating to architecture such as drafting (AutoCAD) and model building.

Education

May 2006 - Bachelor of Science, Aerospace Engineering The University of Texas at Austin

Relevant Courses: Introductory Fluid Mechanics and Heat Transfer courses, Mechanics of Composite Materials, Aerospace Propulsion, Compressible Fluid Mechanics, Viscous Fluid Mechanics, Computer Aided Manufacturing, Finite Element Analysis, Computational Fluid Dynamics

Skills

- Computational Fluid Dynamics. Extensive experience with Pro-Star/Star-CD and Star-CCM+, some experience with Fluent/Gambit. Accustomed to creating large, complex meshes in excess of 50 million cells. Experienced with analysis involving a variety of physics and CFD and meshing techniques (turbulent flow, supersonic flow, sliding/deforming mesh, free surface, fluid-solid heat transfer, multiple fluid streams, reacting flow)
- Very familiar with UNIX/Linux operating environments, including large clusters. Also familiar with Windows.
- Programming Languages. MATLAB, C++, Fortran, Java and Bash scripting.
- CAD. Experienced with Solidworks and AutoCAD, some use of Pro-E.

References

Available upon request