GOLDY GOPHER

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# SUMMARY OF QUALIFICATIONS

* Pursuing a Master of Science in Mechanical Engineering
* Obtained industry experience through internship at Boeing and collaborated on a project with BASF
* Proficient in aerosol/nanoparticle synthesis, sampling, measurements, and instrumentation
* Experience in air filtration, cleanroom technology, engine emission, and flow measurement/CFD
* Knowledgeable about thermal-fluid problems, aerosol physics, and mechanical design

# EDUCATION

**Master of Science in Mechanical Engineering**  May 2015 University of Minnesota-Twin Cities, Minneapolis, MN

College of Science and Engineering

Department of Mechanical Engineering Cumulative GPA: 3.87

**Bachelor of Engineering in Mechanical Engineering** May 2013 University of Wisconsin-Madison, Madison, WI

College of Engineering Cumulative GPA: 3.76

# RELATED INDUSTRY EXPERIENCE

**Intern** Summer 2014

**Boom Inc.,** Seattle, WA

* Conducted systematic measurement for flow fields in a smoke test chamber at different heating and ventilation conditions, using Particle Image Velocimetry
* Helped validate CFD simulation results for smoke generation and transport in commercial airplane cabins
* Streamlined a key product characterization procedure, improving reproducibility and turn-around time for manufacturing
* Designed and implemented comparative studies of various standard operating procedures in order to detect areas of improvements
* Collaborated with a multi-disciplinary team of software engineers, electrical engineers, and aerospace engineers
* Interacted with customers, partners, subcontractors and suppliers
* Presented findings and recommendations of project areas that could be developed to the internship coordinator

and colleagues

# SKILLS

**Particle Generation:** Nebulizer, Tube Furnace, Fluidized Bed, Diffusion Burner, Electrospray

**Laboratory Instruments:** Electron Microscopy (TEM, SEM, EDX), Differential Mobility Analyzer, Condensation Particle Counter, Nanoparticle Surface Area Monitor, Nanometer Aerosol Sampler, Aerodynamic Particle Sizer, Optical Particle Counter, Liquid Particle Counters

**Programs:** LabVIEW, Matlab, ANSYS, Fluent, AutoCAD, Pro/ENGINEER, SolidWorks, ImageJ, Macromedia

**Computer Languages:** C/C++, Fortran, HTML, JavaScript