

H. Stephen Phillips

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Education	Doctor of Philosophy, Engineering University of Colorado, Boulder (<i>June 2012 – May 2013</i>) <ul style="list-style-type: none">• Astrodynamics and Satellite Navigation University of Tennessee, Knoxville (<i>January – May 2012</i>) <ul style="list-style-type: none">• Aerospace Engineering	<i>In Progress / On Hold</i>
	Masters of Science, Engineering University of Tennessee, Knoxville <ul style="list-style-type: none">• Mechanical Engineering	<i>December 2011</i>
	Bachelor of Science, Engineering University of Tennessee, Knoxville <ul style="list-style-type: none">• Aerospace Engineering	<i>May 2010</i>

Skills/Abilities

Manufacturing and Machining

- General machining (mills and lathes - CNC and manual, various grinders and sanders, various saws, shears, bending brakes, etc)
- Placed 1st in the 2005 Tennessee Skills USA CNC milling competition held in Chattanooga, TN
- Placed 2nd in the 2005 National Skills USA CNC milling competition held in Kansas City, MO
- Completed three years of machine shop coursework during high school
- Electrical soldering and understanding of electrical test equipment gained from building/restoring guitars and guitar amplifiers
- Worked in two manufacturing facilities, a machine shop and a hardware store

Communication

- Served three years as a Student Alumni Associate assisting in events for both Tennessee alumni and future students (traveling ambassador for student body and University of Tennessee system)
- Worked as a Resident Assistant for three years coordinating programs for residence halls. This position built teamwork skills through continuous collaboration with other staff members.
- Worked as a Graduate Teaching Assistant for five semesters and received excellent evaluations from students and professors. This position required presenting material to three classes of students two days a week and also running a weekly help session.

Computer

- Matlab programming (expert)
 - Taught four semesters of a required programming course for undergraduate engineers in which Matlab was the language/program used.
- Simulink Simulation
- CNC mill/lathe programming
- Microsoft Office (Word, Excel, PowerPoint, Publisher)
- Linux/Unix Systems
- AGI STK Astrogator
- NASA POST
- Autodesk AutoCad and Inventor, ProE, SolidWorks (novice)

- Fortran, Python, C++ and Perl programming (in order or competency)
- XFOIL, APAS, Missile DATCOM
- Numerical algorithms (integration schemes, estimation filters, etc)

Awards

- Licensed as *Engineer in Training* by state of Tennessee (FE Exam)
- Recipient of Paul Pigott Scholarship through PACCAR
- Five year recipient of Tennessee Hope Scholarship
- Four year recipient of University of Tennessee Volunteer Scholarship
- University of Tennessee Engineering Fundamentals Department Teaching Assistantship
- University of Colorado Aerospace Engineering Sciences Department Research Assistantship
- University of Colorado Aerospace Engineering Sciences Department Teaching Assistantship

Academics

- Completed BS coursework with a 3.4 GPA
- Completed MS coursework with 3.5 GPA
- PhD GPA of 3.4 (*in progress*)
- GRE score: 1310 (Quantitative Reasoning – 750, Verbal Reasoning – 560, Analytical Writing – 4.5)

Relevant Coursework (engineering specific)

- Undergraduate - statics, dynamics, fluid mechanics, mechanics of materials, aircraft structures, aircraft performance, thermodynamics, numerical analysis, aerospace instrumentation and measurement, compressible flow, heat transfer, system dynamics, aerodynamics, astronautics, propulsion
- Graduate - fluid mechanics, rocket propulsion, advanced mechanics of materials, aircraft flight controls, numerical methods, control systems, dynamics, turbomachinery, perturbation methods, astrodynamics, statistical orbit determination (batch, sequential, and extended Kalman filtering)

Interests/Hobbies

- Avid golfer with 2 handicap
- Acoustic and electric guitar
- Snowboarding and snow skiing
- Wakeboarding and water skiing
- Taking trips and touring on my motorcycle
- Working on cars, motorcycles, golf clubs, guitars, guitar amps, etc
- I also hope to get my Private Pilot License in the near future

Work Experience

Graduate Research Assistant, Colorado Center for Astrodynamics Research, Boulder (*June 2012 – May 2013*)
Graduate Teaching Assistant, CU Aerospace Engineering Sciences Dept., Boulder (*August 2012 – Dec 2012*)
Graduate Teaching Assistant, UTK Engineering Fundamentals Dept., Knoxville (*August 2010 – August 2012*)
Manufacturing, Process & Quality Engineer Intern, MasterCraft Boat Company, Vonore (*January – June 2010*)
Pro Shop Attendant, Three Ridges Golf Course, Knoxville (*June 2009 – June 2012*)
Customer Service/Sales, Rolf Lanz Ski & Outdoors, Knoxville (*August 2008 – December 2009*)
Resident Assistant, UTK Housing Dept., Knoxville (*August 2006 – August 2008*)
Assembly Line (summer work program), Peterbilt Motors Company, Madison (*May – August 2006*)
CNC Mill Operator, Thunder Heart Performance Cooperation (*May – August 2005*)
Customer Service, Ace Hardware, Portland (*January 2004 – May 2005*)