

Matthew K. Chamberlain

Current Address: 12300 Apache Ave., Apt. # 1610, Savannah, GA 31419

Permanent Address: 316 Myrtle Ave., Cheltenham, PA 19012

(404) 550-2482 • gte010x@mail.gatech.edu

- OBJECTIVE** Full-time position as a graduate mechanical engineer in the areas of complex systems design, computer aided design (CAD), modeling and simulation, optimization, or a related field.
- SUMMARY OF QUALIFICATIONS** Intellectually curious engineer with seven years experience in conceptual design and optimization research, hundreds of hours of experience in computer aided design, and strong leadership skills
- EDUCATION**
- Georgia Institute of Technology**, Atlanta, GA *August 2007*
Ph.D. in Mechanical Engineering
- Dissertation topic: Systematic redesign of complex engineering systems to meet strategic goals
 - Overall GPA: 4.0
- Georgia Institute of Technology**, Atlanta, GA *December 2002*
Master of Science in Mechanical Engineering,
- Thesis topic: Multi-objective systems design taking into account technology forecasts and uncertainty
 - Overall GPA: 3.67
- Carnegie Mellon University**, Pittsburgh, PA *May 2000*
Bachelor of Science in Mechanical Engineering with Honors
- Overall GPA: 3.95
- EXPERIENCE**
- Georgia Institute of Technology**, Atlanta and Savannah, GA *August 2000 to present*
Graduate Research Assistant and Laboratory Manager
- Presentation of research findings in both academic settings and at professional conferences
 - As Manager of lab, organized and led research meetings, social activities, and volunteer work for 30-person group, was also responsible for creation and acquisition of \$125,000 in lab facilities
- NASA Langley Research Center**, Hampton, VA *September – December 2002*
Visiting Researcher
- Developed improvements to a multi-level, multi-disciplinary optimization method in order to increase performance, generate better results, and prepare it for commercialization
- Bechtel Bettis Atomic Power Labs**, West Mifflin, PA *May – August 2000*
Associate Engineer
- Utilized ProEngineer to create assemblies to support high-priority project
 - Performed ASME code calculations and engineered a program for pressure testing small vessels under internal pressure with an inert gas
- IBM Printing Systems Company**, Endicott, NY *June – August 1998 and May – August 1999*
Engineering Intern
- Managed a project that investigated and analyzed failures of printer parts, leading to suggested product and process improvements that led to a reduction in service and repair costs over long product lifecycles
 - Led a team that planned and implemented a program to upgrade a product to make it more robust
- SKILLS**
- Software: CATIA, ProEngineer (Pro/E), ProManufacture, Modelcenter, ANSYS, AutoCad, JMP, Crystal Ball, Matlab, Mathcad, and Microsoft Office
 - Modeling and Simulation: Dymola, ACSYNT, POST, CONSIZ, FLOPS
 - Programming Languages: Matlab, C++, C, Visual Basic, Fortan, HTML
 - Engineer in Training certification in the Commonwealth of Pennsylvania (2000)
 - Security clearances: Department of Energy “Q” secret clearance (2000), NASA clearance (2002)
- SELECTED HONORS**
- National Science Foundation Graduate Research Fellowship (2002)
 - Georgia Institute of Technology President’s Fellowship (2000-2002)
 - ASME IDETC Student Design Essay Contest Winner (2001 and 2003)
 - Carnegie Mellon University Dean’s List for all semesters
 - Carnegie Mellon University Service Learning Award (1998)

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