Kito Berg-Taylor

Ostender Strasse 31
13353 Berlin

+49 176 283 31149
contact@gokito.com
http://www.gokito.com

As a highly motivated engineer, I enjoy taking responsibility for a project and seeing it through from conception to testing. My strengths lie in my flexibility and ability to quickly grasp and apply new skills and methods within a team.

Education

- **Iowa State University** — Ames, IA
  Bachelor of Aerospace Engineering — *Jun. 2003 – Jun. 2008*
  - Technical lead for Iowa State University's entry into the 2009 University Rover Challenge hosted by the Mars Society
  - Team leader and consultant for Department of Computer and Electrical Engineering's multi-year senior design project to develop an autonomous helicopter
  - AIAA ISU Chapter Cabinet Member - Projects and IT Chairs
  - Team leader for 2003/2004 AIAA Undergraduate Team Aircraft Design Competition

Experience

- **German Aerospace Center - Institute of Flight Systems** — Braunschweig, Germany
  Research Scientist — *Jul. 2008 – Dec. 2009*
  - Developed reactive obstacle avoidance subsystem for the helicopters of the ARTIS autonomous vehicle project
  - Planned and implemented reorganization of flight control software architecture
  - Updated software build tools and modernized build process
- **Iowa State University - Aerospace Robotics Lab** — Ames, IA
  Research Assistant — *Dec. 2007 – Jul. 2008*
  - Developed a team of unmanned ground rovers for algorithm testing and pathplanning research
  - Assisted in development of an innovative unmanned micro-helicopter
  - Designed, built and tested a multitude of sensor systems, electronic circuits, control software and vehicle protective shells
  - Wrote multiple papers covering scientific innovations and project advancements
- **University of Koblenz-Landau** — Koblenz, Germany
  DAAD RISE Scholar — *Jun. 2007 – Aug. 2007*
  - Developed a small ground vehicle simulator and visualization system using Bullet Physics Library and Ogre 3D Engine
  - Contributed to software and vehicle design for Koblenz's entry into the 2007 SICK Robot Day competition
  - Performed extensive testing and refinement of novel path-planning algorithms
- **Northwest Airlines** — Des Moines, IA
  Ground Services — *Jun. 2006 – Sep. 2006*
  - Worked with hundreds of customers daily to solve problems and promote and enjoyable and efficient travel experience
  - Maintained a secure, efficient and friendly environment for travellers
  - Loaded and unloaded a few hundred pounds of cargo into several planes every hour
- **Northwest Airlines - Powerplant Engineering** — Minneapolis, MN
  Maintenance Engineer - Intern — *Jan. 2006 – May 2007*
  - Developed a system for automatic recovery of engine history in Access and VBA script
  - Reorganized internal auxiliary power unit database using principles of relational database design for faster lookup and better space efficiency
  - Automated the organization of hundreds of vendor parts to facilitate the discovery of cost savings
  - Parsed hundreds of engine paper records in search of maintenance anomalies

Skills

Design: Eagle PCB, Solidworks, Matlab

Development: C/C++, Qt, Bash Shell Scripting, CMake, Make, SQL & Relational Database Design, Debian/Ubuntu Linux, Mac OS X, Windows XP, QNX

Prototyping: Sheetmetal Working, Soldering (Surface Mount & Thru-hole), Wiring, Parts Assembly, Basic Woodworking

Presentation: LaTeX, HTML, PHP, Ruby on Rails, Office Suites, Apple Keynote, Photoshop, Illustrator, Advanced Photography (Film & Digital)

Communication: Strong Written and Verbal Communication, Intermediate German, Intermediate Mandarin Chinese, Basic French

Publications

- *Development of a Car-like Online Navigation Testbed*, IEEE Electro/Information Technology, 2008
- *Localization and Obstacle Avoidance for Small Agile Vehicles*, AIAA Region V Conference, 2008
- *Sensor Based Path Planning in Highly Constrained Environments for Agile Autonomous Vehicles*, AIAA Guidance, Navigation and Control, 2008

Kito Berg-Taylor

+49 176 283 31149
contact@gokito.com