

PHILIP M. BLAIKLOCK

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Highlights

- Pursuing Masters degrees in Transportation Engineering and City Planning at Georgia Tech
- Holds bachelors in Electrical Engineering from Rice University, earned May 2000
- Six years of applications engineering experience – firmware, hardware support – in the mobile handset industry. Exceptional organizational talents.
- Enthusiastic about creative expression and communication. Active in campus improv comedy, and holds *Competent Toastmaster* award.

Employment

2007-present **Graduate Research Assistant, Department of Civil and Environmental Engineering, Georgia Institute of Technology**

- Works under Dr. Randall Guensler
- Helped adapt the department's Commute Atlanta (<http://commuteatlanta.ce.gatech.edu/>) GPS technology to freight shipments. Designed and built self-contained enclosures for the GPS technology. The new units tracked several loads, on battery power, over cross-country trips.
- Fixed critical software bugs in Commute Atlanta Trip-Data collector boxes which were holding up the research effort.

2000-2006 **Applications Engineer, Texas Instruments Inc., Dallas, TX**

- Mastered all aspects of USB compliance testing, including hardware and software. Worked with chip designers to characterize design bugs and test for reliability. Helped several TI customers certify their OMAP chipsets for USB before reaching market.
- Took initiative to port the *Nucleus* operating system to OMAP1610 multimedia processor – required for a contractor's USB testing on that device.
- Programmed factory tests on TI mobile handset reference designs. Target modules included USB and Infrared.
- Extensive field testing experience with GSM / GPRS mobile standards.

Summer 1999 **Student Co-op, Texas Instruments Inc., Stafford (Houston), TX**

- Programmed test cases (in assembly) for the *Serial Communications Interface* on TI's f243 motor control DSPs, as part of a broad test suite delivered to customers.
- Wrote analog circuit simulations in Matlab, for f24x input-output characterization.

Fall 1997- Spring 1999 **Technical Coordinator, Center for Research on Parallel Computation, Rice University**

- Served as CRPC webmaster. Redesigned the CRPC homepage.
- Managed and delivered tech support for CRPC's summer 1998 teacher outreach programs.

Education & Training

- 2007-present **Georgia Institute of Technology, Master of Civil & Environmental Engineering. Master of City and Regional Planning.**
- Specialization Areas: Transportation Engineering, Transportation Planning, Urban Design
 - Expected graduation: December 2009
 - GPA: 4.0/4.0
- May 2000 **Rice University, Bachelor of Science, Electrical Engineering**
- Specialization Area: Control, Communications, and Signal Processing
 - Coursework included digital communications, digital design, control systems, and similar. Also took Computer-science classes through object-oriented programming (Java, C++).
 - GPA: 3.30/4.00 (3.34 in major)
- August 2004 **Competent Toastmaster Award, Toastmasters International**
- Delivered first ten speeches in the *Communication and Leadership Program*, to achieve CTM.
 - Has met requirements for Advanced Toastmaster Bronze (paperwork needs to be submitted)

Skills

- Programming Languages C/C++, Java, Assembly, HTML, Scheme, Matlab. Working knowledge of perl and javascript
- Spoken Languages Spanish
- Software Packages MS Office, ArcMAP, CUBE, Autocad, HCS, Synchro

Activities

- Performs with *Let's Try This!*, Georgia Tech's improv troupe (<http://coweb.cc.gatech.edu/ltt>)
- Was active in *Dallas Singles Toastmasters* (<http://www.dallasinglestm.com>). Served as President for winter/spring 2005. Implemented scheduling policies which have improved attendance.
- Writes short fiction, and has participated in local writing workshops.