

# Jinsuck Kim

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- Summary of Qualifications**
- Strong engineering background (aerospace, mechanics, and robotics)
  - Strong computer background (algorithm and programming)
  - Problem solving ability for physical problems using theoretical and practical approaches
- Education**
- **Ph.D.**, Department of Computer Science, Texas A&M University, College Station, TX, *expected August 2004\** (Thesis Topic: Mobile Robot Navigation and Localization)
  - **M.S.**, Department of Aeronautics and Astronautics Engineering, Purdue University, West Lafayette, IN, *August 1998* (Thesis Topic: Robotic Manipulator Feedback Control)
  - **B.S.**, Department of Aerospace Engineering, Inha University, South Korea, *Feb 1996*  
\* Dissertation defended in Feb 2004
- Professional Experience**
- **2000 ~ present, Research Assistant**, Dept. of Computer Science, Texas A&M
    - Main topic: mobile robot navigation and localization using range sensors
    - Main work: algorithm design, software development, and hardware experiments
    - Secondary work: supervise group project (developing a web-based route planner)
  - **1999, Research Assistant**, Dept. of Aerospace Engineering, Texas A&M
    - Main topic: spacecraft attitude determination using GPS carrier wave
    - Work: implementing Matlab program
    - Part of International Space Station (ISS) project by NASA
  - **Mentoring Four Undergraduate Student Research Projects**
- Publications**
- Four papers to ICRA (*IEEE International Conference on Robotics and Automation*), as 1<sup>st</sup> author
  - One to IROS (*IEEE/RSJ International Conference on Intelligent Robots and Systems*), as 1<sup>st</sup> author
  - Technical reports to NASA JSC and The Parasol Lab, Comp. Sci. Dept., Texas A&M University
- Computer Skills**
- Operating systems : MS Windows\*, MS DOS\*, Linux\*, Solaris, IRIX
  - Programming languages: C/C++\*, Assembly (Motorola 6502, Intel x86), Perl
  - Computation/Geometry tools: MatLab\*, Mathematica\*, LEDA\*, CGAL
  - Hardware interface: MatLab Realtime Workshop, SAPHIRA
  - Graphics: OpenGL, Microsoft Windows SDK, 3D Studio, QT
  - Web/IT: PHP, MySQL
- \*Several years' experience / others: less than one year
- Course Work (selected)**
- Aerospace: Aircraft/Spacecraft Flight dynamics, Helicopter engineering, Trajectory optimization  
Computer Sci.: Randomized motion planning, Artificial intelligence, Machine learning, Computational geometry, Geometric modeling, Parallel algorithms, Database Systems
- References** Available upon request