

Justin Ruths

research.development.design.innovation.discovery

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Academic

- ✿ PhD-track Columbia University, New York City
 - GPA: 3.78 Major: Mechanical Engineering M.S. Graduation December 2005
 - RASCAL Autonomous Robot Lab (Dr. Anouck Girard) working on team robot control
 - IMECE 2005 paper publication; upcoming IEEE 2006 paper submission
- ✿ Rice University, Houston TX
 - GPA: 3.81 Major: Physics B.S. Class of 2004
- ✿ Potential future pursuits: R&D, invention, prototype development, graphics in digital and print media
- ✿ Interests: technology, design, controls, energy production, physics modeling, computer application, computer haptics, plate tectonics, neural function

Bio

- ✿ American citizen, born in Canada
- ✿ Lived: Canada, Texas, Colorado, California, Indonesia, New York
- ✿ Visited: US, Canada, Mexico, Indonesia, Malaysia, Australia, New Zealand, China, Hong Kong, Thailand, Singapore, Spain, France, England, Germany, Switzerland, Italy

Skills

- ✿ Computer hardware proficiency
- ✿ Computer software proficiency including Microsoft Office; Wolfram Mathematica; MATLAB; MicroChip; Adobe Photoshop; Macromedia Fireworks, Flash, Dreamweaver; Caligari TrueSpace
- ✿ Computer programming proficiency including primarily Java, C/C++, Assembly, Visual Basic, Scheme
- ✿ Embedded systems; 2D & 3D Graphic design; 3D Animation; Web design & management; Application development; Game development
- ✿ Singing; Juggling; Acting; Various athletic sports (including basketball, judo, jiu-jitsu, tennis, badminton, swimming)

Work Experience

- ✿ 2000 – Summer Day Camp Councilor (New Territory, Sugar Land TX)
- ✿ 2001 – Java Developer for Networking StartUp company ([Advanced Reality](#), Houston TX)
- ✿ 2002-6 – Founder, Graphics Artist, Web Designer (Tryphon Arts, Sugar Land TX)
 - Work for ChevronTexaco, Baylor College of Medicine, Rice University, Coastal Mosquito, CrimeSearch Inc.
- ✿ 2002-6 – Graphics Consultant & Technical Advisor ([NanoKids](#), Rice University)
- ✿ 2004-5 – Teaching Assistant for Thermodynamics, Lab I, Lab II (each for one semester)
- ✿ 2005 – Intern for [Chevron](#), Subsea Engineering in Energy Technology Company

Awards & Achievements

- ✿ 2000-3 – Rice University Honor Roll
- ✿ 2000-3 – ChevronTexaco REACH Scholarship
- ✿ 2000-3 – Lutheran Brotherhood Scholarship
- ✿ 2002 – Animation segments for NanoKids shown at nation-wide science conference
- ✿ 2002 – December International [Caligari](#) Animation Contest, 1st prize
- ✿ 2002-2003 – National Dean's List
- ✿ 2004 – Graduated Cum Laude from Rice University
- ✿ 2004-5 – Outstanding Teaching Assistant Departmental Award (3 consecutive semesters)
- ✿ 2005 – Primary Author on "Controlled Vehicle Exchange and Allocation in Dynamic Teams" paper at IMECE 2005

Involvement & Volunteer

- ✿ 1997-2003 – Church Choir
- ✿ 2001-3 – Volunteer juggling (e.g. children's hospital)
- ✿ 2002-4 – Rice University Juggling Club VP & President
- ✿ 2003 – Principal role in Rice University production of *Kiss Me, Kate*
- ✿ 2004 – Organized and began a juggling club at Columbia University