

Eagle Jones

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(310) 403-7525

Education

University of California, Los Angeles, CA

Ph.D., Computer Science (June 2009)

Teaching Assistant, CS 174 – Computer Graphics (Spring 2004)

Research Assistant, Computer Vision Lab (2003-2009)

Research Assistant, Laboratory of Neural Imaging (2002-2003)

California Institute of Technology, Pasadena, CA

B.S., Engineering & Applied Science (June 2001)

Teaching Assistant, CS 1/2 – Programming in C/C++ (Winter-Fall 1998)

Skills

Expert in all forms of image-based computation, autonomous vehicles, and robot navigation. Excellent analytic, interpersonal, and communication skills. Capable team leader, adviser to senior executives, and problem solver. Extensive public speaking in academic/scientific, policy, and philosophical settings. Significant entrepreneurial experience.

Experience

Senior Associate

McKinsey & Company, Seattle, WA (2009-present)

Consultant to top management at several premier institutions including eight of the Fortune 500. Experience in strategy, operations, and marketing & sales across several industries, including telecommunications, consumer electronics, and semiconductors. Pro bono work at two non-profits to evaluate and launch new initiatives. “Your leadership, energy, and brainpower are humbling. Honored to have you on the team.” -Vice President, Fortune 50 client.

Project Manager

Golem Group, Santa Monica, CA (2004-2005)

Key member of team which built two robotic trucks, qualifying for and placing well in both the 2004 and 2005 DARPA Grand Challenge off-road autonomous vehicle races. Described as “the little engine that could” by DARPA Director Tony Tether. Contributed to sensor and control software, overall system design, testing, and hands-on engineering. Interfaced with sponsors, media, and handled aspects of legal/administrative affairs.

Fellow

Entrepreneurial Fellowship Program, Pasadena, CA (2001-2002)

Selected to participate in Caltech/Art Center College of Design/NSF program. Classroom time, mentoring, and hands-on experience in start-up, design, marketing, branding, legal issues, intellectual property, financing, etc.

Technical Director and Co-Founder

Aneiva, Inc., Ashland, OR (1995-1999)

One of two programmers for Cydonia (aka Lightbringer), hailed by Computer Gaming World magazine as “. . . the strongest-looking sci-fi adventure in years.” [May 1998] Researched and implemented custom video compression for streaming video. Created image-based rendering technology capable of 360° panoramic viewing.

Programmer

Starseed, Inc., Ashland, OR (1997-1999)

Researched/implemented wavelet image compression for internet accelerator product. Company acquired by Yahoo!.

Programmer

Vocal Point, Inc., San Francisco, CA (Summer 1998)

Evaluated performance of speech recognition software and designed voice-enabled web browser for startup.

Assistant Computer Architect

Intel Corp., Hillsboro, OR, (Summer 1995)

Worked on the then-prototype P6 (Pentium Pro) processor. Independently discovered critical unexpected performance issues of memory addressing scheme, resulting in pre-production fixes. Wrote assembly code to maximize speed of block memory operations, substantially improving performance and influencing future compiler designs.

Research Assistant

Southern Oregon University, Ashland, OR (Summer 1994)

Built neural network to predict particle storms which destroy satellites. Applied chaotic model to magnetosphere.

Awards

McKinsey Insight Program (2007)
Semifinalist, TopCoder Open Marathon Competition (2007)
Finalist, DARPA Grand Challenge (2004, 2005)
Green Hills Software Scholarship (1998)
Caltech Upperclass Merit Award (1998)
Caltech Freshman Merit Award (1997)
Rensselaer Medal for Math and Science (1996)
Autodesk Scholar of Distinction (1996)
National Merit Scholar – 1600 SAT (1995)

Professional Activities and Service

Program Committees

IEEE Conference on Computer Vision and Pattern Recognition (2006, 2007)
IEEE International Conference on Computer Vision (2007)

Volunteer Work

2nd Lieutenant, Civil Air Patrol (US Air Force Auxiliary)

Personal Achievements

Completed Ironman Arizona - 2.4 mile swim, 112 mile bike, 26.2 mile run (2005)
NCAA Water Polo All-American (2000)
Caltech swimming record holder - 1650, 1000, and 500 yard freestyle (2000-present)
Private Pilot License
NAUI SCUBA Certified - Advanced Open Water

Publications

Proceedings of Refereed International Conferences

- [1] E. Jones, A. Vedaldi, and S. Soatto. Inertial structure from motion with autocalibration. In *Proc. ICCV Wkshp. on Dyn. Vision*, 2007.
- [2] E. Jones, B. Fulkerson, E. Frazzoli, D. Kumar, R. Walters, J. Radford, and R. Mason. Autonomous off-road driving in the DARPA Grand Challenge. In *Proc. IEEE/ION Pos., Loc., and Nav. Symp.*, 2006.
- [3] E. Jones and S. Soatto. Layered active appearance models. In *Proc. Int. Conf. on Comp. Vision*, 2005.
- [4] G. Doretto, E. Jones, and S. Soatto. Spatially homogeneous dynamic textures. In *Eur. Conf. Comp. Vis.*, 2004.
- [5] A. MacKenzie-Graham, M. Martin, E. Jones, D. Shattuck, R. Jacobs, R. Voskuhl, and A. Toga. Atlas of experimental autoimmune encephalomyelitis in the C57BL/6 brain. In *Int. Mtg. of Soc. for Neuroscience*, 2003.

Refereed Journal Articles

- [6] E. Jones and S. Soatto. Visual-inertial navigation, mapping and localization: A scalable real-time causal approach. *International Journal of Robotics Research*, 30:407–430, 2011.
- [7] R. Mason, J. Radford, D. Kumar, R. Walters, B. Fulkerson, E. Jones, D. Caldwell, J. Meltzer, Y. Alon, A. Shashua, H. Hattori, N. Takeda, E. Frazzoli, and S. Soatto. The Golem Group / UCLA autonomous ground vehicle in the DARPA Grand Challenge. *Journal of Field Robotics*, 23:527–553, 2006.
- [8] A. MacKenzie-Graham, E. Jones, D. Shattuck, I. Dinov, M. Bota, and A. Toga. The informatics of a C57BL/6J mouse brain atlas. *Neuroinformatics*, 1(4):397–410, 2003.

Book Chapters

- [9] E. Jones. Writing documentation. Designing the user interface. In *More Tricks of Game Prog. Gurus*. Sams, 1995.