Jeffrey Young

Master's student in computer science specializing in robotics and AI

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Employment History

Photonic Corp: August 2013 - May 2014

- Analyzed performance of a novel computer architecture running DoD benchmarks
- Simulated effectiveness of different routing algorithms for SMP machine in C++
- Evaluated performance benefits of including GPUs in novel architecture using CUDA C++

UC Berkeley Combustion Lab

- Evaluated effect of microwaves on methane combustion at lean flammability limit
- Wrote image processing software in Matlab and ImageJ to automate extraction of combustion data from high speed camera footage

UC Berkeley Tennis Dynamics Lab

- Evaluated effect of variables such as string type, tension, and racquet material on impact spin generation
- · Assisted in writing image processing software in Matlab to automate data collection

Education

Georgia Tech

- MS in Computer Science
- August 2014 June 2016 (expected)
- Specializing in AI and Robotics

UC Berkeley

- BS in Mechanical Engineering
- August 2009 December 2012
- Drake Scholarship Recipient

Projects

GTthreads

POSIX-Compliant user-level threading library

• Emulates functionality of pthreads library

OpenMP/MPI Barrier

- Custom barrier implementations for OpenMP/MPI in C
- · Performance analysis with different architectures and usage patterns

Raven's Matrices

- Python program to solve Raven's Matrices
- Visual analogy problems used in IQ tests

UCB Bionic Knee

- · Created a replacement knee joint for evaluation in UCB's DARPA-funded exoskeleton project
- Automated using an Arduino collecting data from IMU-3000 accel/gyro

Skills

Programming

- C/C++
- CUDA/OpenMP/MPI
- Python/Matlab
- LabView
- Android
- Arduino
- HTML/CSS

Other

- Mechanical Design Solidworks/Inventor
- Stress and Thermal Analysis Comsol
- · Automotive Maintenance
- Computer Building and Case Modding