

Max Espinoza

COMPUTER GRAPHICS · SOFTWARE ENGINEERING

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Education

Rensselaer Polytechnic Institute

PHD IN COMPUTER SCIENCE

- Current GPA: 3.68

Troy, NY

May 2013 – Exp. May 2018

Rensselaer Polytechnic Institute

MASTERS IN COMPUTER SCIENCE

- Current GPA: 3.68

Troy, NY

May 2013 – Exp. May 2016

Fairfield University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

- Graduated GPA: 3.67 (Cum Laude)
- Graduated with Computer Science Department Award 2013
- Pi Mu Epsilon (National Honors Mathematics Society) Member

Fairfield, CT

May 2013

Experience

Computer Graphics Research at Rensselaer Polytechnic Institute

LEAD RESEARCH ASSISTANT

- Led weekly meetings and organized the development of research software for our team.
- Developed an online architectural sketching interface for daylighting simulation.
- Familiarized with lighting algorithms and current daylighting research.
- Conducted user studies with our online architectural sketching interface and analyzed results to further improve our tool.
- Researching architectural acoustics simulations to be incorporated into our daylighting simulation framework.

Troy, NY

May 2014 - Present

Pitney Bowes

SOFTWARE ENGINEER INTERN

- Coordinated project task as Scrum Master with a remote team in Noida, India for the 64bit release of MapInfo Professional 15.
- Helped facilitate communications between local and remote teams to solve mutual problems.
- Familiarized with Agile Project Management and Atlassian Tools: including Jira, Crucible, and Confluence.
- Utilized Integrated Building System such as Teamcity in addition to SVN for version and revision control.
- Implemented Coded UI test for the automated testing of new user interface features.

Troy, NY

May 2015 - Aug. 2015

Fairfield University

BUSINESS PLAN COMPETITOR

- Startup Day Winner of Fairfield University Business Plan 2013 – Awarded capital to begin development of product prototype.
- Created an iPhone application to communicate through Bluetooth channels to Arduino micro-controllers.
- Used strong communication skills to find mentors in the field of project management, engineering, manufacturing, and business.
- Worked in a collaborative team project to develop a prototype consumer product along with a formal business plan.

Fairfield, CT

Feb. 2013 - May 2013

University of Connecticut

NATIONAL SCIENCE FOUNDATION, BIOGRID REU FELLOW

- Familiarised with motif detection software and randomized network generation algorithms.
- Analyzed and surveyed graph randomization methods and the topologies preserved from networks.
- Presented results in the 2012 REU Summer Symposium at the University of Connecticut.

Storrs, CT

Jun. 2012 - Aug. 2012

Technical Strengths

Languages(Adept): C++ and Java

Languages(Proficient): Python, C, C#, Obj C, JavaScript, PHP

Tools and Frameworks: OpenGL, WebGL, GLSL, Linux, Coded UI, Arduino