

Peter Wei

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Education

Carnegie Mellon University

08/2011-Present

- Bachelor of Engineering in Electrical and Computer Engineering, Graduating May, 2015
- QPA: 3.89

Publications

- Dynamic Search-Based Planning (Summer 2014)
 - Christopher Clingerman, Peter J. Wei, Daniel D. Lee. Dynamic and Probabilistic Estimation of Unknown Obstacles for Indoor Robotic Navigation. 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2015) (Under Review)
- Simulation of Biological Systems Using Digital Logic Gates (C and SystemVerilog) (Fall 2013)
 - Natasa Miskov-Zivanov, Peter Wei, Clement Loh. THiMED: Time in Hierarchical Model Extraction and Design. Proceedings of the 12th International Conference: Computational Methods in Systems Biology, Manchester, United Kingdom, 2014 Nov 17-19. Springer, 2014. 260-263.

Work Experience

Undergraduate Research, University of Pennsylvania

06/2014-Present

- Implemented dynamic search-based planning (D* Lite) for improved path planning
- Optimized lattice planner for memory optimization and non-holonomic constraints

Project Experience

- Wrote a parallelized version of D* Lite using Pthreads and OpenMP (Spring 2014)
- Wrote an embedded kernel to handle software & hardware interrupts, multitasking (Fall 2014)

Research Projects

- MATLAB modeling of growth levels of RNA and protein in biological systems (Summer 2012)
 - Best Foundational Advance Project, iGEM World Jamboree 2012 (Fall 2012)
- Brain-Computer Interface Data Classification Using Support Vector Machines (Fall 2014)

Teaching

- Lab Assistant, Introduction to Electrical and Computer Engineering (Fall 2012)
- Teaching Assistant/Recitation Leader, Principles of Imperative Computation (Summer, Fall 2013)