Stepan A. Tikhonov 149 Foxbridge Village Rd., Branford, CT 06405

stikh@umich.edu • Cell: 203-252-8833 •www.linkedin.com/in/stepantikhonov

OBJECTIVE: Seeking a full-time position as a computer engineer with a strong interest in computer architecture and embedded systems.

EDUCATION:

University of Michigan, B.S.E. Computer Engineering April 2011

JOB, VOLUNTEERING AND OTHER EXPERIENCES:

U. of Michigan Class Development and Independent Research, June 2010 – Present

- Implementing lab for new class, Advanced Embedded Systems
- Created library tracking robot
- Integrated serial drivers and tracking code to create end user experience

U. of Michigan Mars Rover Project 2007 – Present

- Senior Electrical Team Leader
- Developing control systems and communications

Infrastructure and Networking Analyst Intern, 454 Life Sciences, June-August 2009

- Worked with people to solve a diverse set of problems

Michigan Student Artificial Intelligence Laboratory, RoboCup, 2008 – 2009

- Developed "mental map" module for robot

Keck Biotechnology Laboratory, Medical School, Yale University, 2003/2006/2009

- Created automated process for data manipulation

GraphLogic Inc., Branford, CT July - August 2004

- Tested LIMS software and documented problems for software developers

RELATED COURSES AND SKILLS:

EECS 470 Computer Architecture – Major Design Project

- Used Verilog to create an 8-way Hyper-Threaded processor

EECS 427 VLSI Design – Major Design Project

- Designed a 16-bit RISC microprocessor
- Used CAD tools to create schematic and layout of ICs

EECS 570 Parallel Computer Architecture

EECS 461 Embedded Control Systems

- Implemented microprocessor based control systems to interface with haptic device
- Modeled of dynamic systems with MATLAB, Simulink and Stateflow

EECS 373 Embedded Systems

- Hardware/software microcomputer interfacing with digital logic design/implementation, digital development equipment and assembly language

EECS 370 Computer Organization

- Datapath and control for multiple implementations of a processor, including performance evaluation, pipelining, caches, virtual memory and IO

EECS 312 Digital Integrated Circuits

- Analyzed and designed digital circuits in various logic families
- Software lab work with HSPICE

EECS 320 Intro to Semiconducting Devices, EECS 498 Smartphone Programming, EECS 280 C++ programming, EESC 270 Logic Design, EECS 203 Discrete Math

Programming and Software: C/C++, MATLAB, Simulink, Verilog, Assembly, MS Office (Word, PowerPoint, Excel), Maple, Mathematica