

Nick Molo

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EDUCATION

PURDUE UNIVERSITY

BS IN COMPUTER ENGINEERING

Dec 2015 | West Lafayette, IN

LINKS

Website - nickmolo.com

Github - [nickmolo](https://github.com/nickmolo)

LinkedIn - [nickmolo](https://www.linkedin.com/in/nickmolo)

Twitter - [@TheNickMolo](https://twitter.com/TheNickMolo)

COURSEWORK

Computer Architecture

Operating Systems

ASIC Design

Data Structures

Microcontrollers

SKILLS

SOFTWARE

Experienced:

C • Python • Linux

VIM • HPC

Proficient:

Perl • Shell • C++

Matlab • Git

Familiar:

C# • MySQL • L^AT_EX • Ruby

HARDWARE

Experienced:

Autocad • Eagle • Verilog

SPI • I2C • UART • USB • CAN

Schematic Capture • PCB Design

Rapid prototyping • SMT soldering

Oscilloscopes • Logic Analyzers

Other standard lab equipment

Proficient:

Solidworks • Altium Designer

Familiar:

Mentor Graphics • OrCAD

EXPERIENCE

INTEL | VPG HW GFX SV MEDIA INTERN

May - Aug 2013, Jan - Aug 2014 | Folsom, CA

- Created a database to index media clips for testing encoding and decoding of various media codecs
- Validated media units on pre- and post-silicon platform
- Organized and handled logistics for a team building event of 50+ people

ROSEN CENTER FOR ACADEMIC COMPUTING | STUDENT SYSTEM ADMINISTRATOR

Jan 2012 - Present, during school session | West Lafayette, IN

- Assembled multiple supercomputers found on the TOP500 list
- Performed maintenance and administration duties on those supercomputers

ROCHE DIAGNOSTICS | FIRMWARE ENGINEERING INTERN

May 2012 - Aug 2012 | Indianapolis, IN

- Designed and tested firmware verification scripts
- Used various troubleshooting techniques to diagnose Bluetooth 4.0 connection problems

EDWARD D. JONES & CO. CORPORATE OFFICE | INFORMATION SYSTEMS, SECURITY IDENTITY MANAGEMENT INTERN

May 2011 - Aug 2011 | St. Louis, MO

- Corrected multi-platform software that utilizes multiple databases and updates active directory via the LDAP protocol
- Documented and updated the firm's secure remote access solution enabling secure access to a user's workstation

ACTIVITIES

MIRRORMIRROR

- Smart mirror that uses facial recognition to display contextually relevant information
- Won 2nd place (\$3500) at the Schurz Innovation Challenge hosted by Purdue Foundry
- Currently developing a gesture based interaction system

PURDUE IEEE

- Designed multiple PCBs and soldered hundreds of components
- Created advanced control software running on ARM and x86
- Developed a proprietary communications protocol for both surface to vehicle communication as well as inter-vehicle communication

STUDENT CLUSTER COMPETITION

- Traveled to multiple conferences representing Purdue at an international level
- Designed, built, and optimized small scale supercomputers
- Compiled and optimized HPC applications