

# Bryan Ehlers

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## Education

*Bachelors of Science* - Electrical Engineering (3.41/4.0)  
*Minor* - Computer Science  
University of Iowa, Iowa City, IA

Expected: May 2017

## Relevant Coursework

*Electrical Engineering*: Circuit Lab 1 and 2, Circuit Design, Digital Design  
*Computer Science*: Data Structures, Algorithms, C++,

## Experience

University of Iowa Carver College of Medicine — Iowa City, IA  
- *Research Assistant*

February 2014 – March 2015

- Designed a database using Microsoft Access to store 100+ interview responses.
- Trained new employees in laboratory processes and proper documentation.
- Troubleshoot laboratory processes to identify and address inefficiencies.

NanoMedTrix, LLC — Coralville, IA  
- *Image Processing Engineer*

October 2014 – January 2015

- Supported research team by compiling MRI data.

City of Northfield — Northfield, IA  
- *Lifeguard*

June 2013 – August 2013

- Maintain safe and secure swimming area by enforcing rules, policies, and procedures.
- Take care of pool.

Kmart — Northfield, IA  
- *Electronics Associate*

May 2011 – August 2013

- Help customers purchase electronics.
- Stock and organize items.

## Skills

*Programming Languages*: C, C++, and Python

*Operating Systems*: Linux/Unix system, Windows

*Software*: NI Multisim, SPICE software, L<sup>A</sup>T<sub>E</sub>X

*Laboratory*: oscilloscope, logic analyzer, signal generator, solder, and multimeter

## Projects

Raspberry Pi Robot  
- *Individual*

- Using a Raspberry Pi to construct a remote control robot.
- Camera module connection for live streaming robot vision back to monitor.
- Developed Python code to control robot motions and camera module.

3pi Robot  
- *Group Project*

- Developed C code to control robot motion and ability to autonomously traverse a maze.

## Activities

Institute of Electrical and Electronic Engineers — Member

University of Iowa Powerlifting Club Treasurer (2013) — Member (Present)

## Awards

Awarded Dean's List for Fall 2013, Fall 2014