# Nicholas E. Schleif

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## Education:

***Bachelor of Electrical Engineering*** GPA: 3.45 / 4.0
***Minor in Product Design*** Expected December 2016
College of Science and Engineering, University of Minnesota Minneapolis, MN

## Skills:

**Software:** PSPICE, Altium, Arduino, Raspberry Pi, MATLAB, Mathematica, C/C++, Microsoft Office, SolidWorks, Adobe Illustrator, Eclipse IDE

## Design Experience:

**Undergraduate Research Assistant** **February 2015 – Present**
Wearable Technology Lab, University of Minnesota

- Develop and integrate hardware for a proposed chemical sensing application using the Arduino platform
- Integrate electronic circuits onto fabrics using conductive thread
- Collaborate on a cross-functional team with graduate students having non-technical skill sets

**AM Radio Project** **September 2015 – December 2015**
Junior Circuit Lab, University of Minnesota

- Worked with a team of peers to create a functioning AM radio that receives WCCO from discrete components
- Designed a custom PCB in Altium to meet electrical and mechanical goals
- United the PCB and enclosure to fabricate an alpha prototype with an indication light, volume control, and power switch

**Designer – Ventrilodog** **January 2015 – May 2015**
Toy Product Design, University of Minnesota

- Developed a fully functional market-ready pole-mounted animal puppet to be implemented by Landscape Structures
- Operated in a team with a budget, project milestone deadlines, and realistic materials
- Brainstormed, prototyped, and refined concepts based on client feedback

**Robo-Butler: The Chrome Chamberlain** **September 2015 - Present**
Independent Project, University of Minnesota

- Drafted a proposal and secured funds from the ECE Envision Fund to work with another engineering student to create a Bluetooth-Controlled robot
- Combine characteristics of Raspberry Pi, Bluetooth, motor theory, and mechanical parameters to fashion a novel device

## Supporting Experience:

**Undergraduate Research Assistant** **August 2015 – Present**
Department of Electrical and Computer Engineering, University of Minnesota

- Collect data for physical and magnetic properties of fabricated nanowires to be implemented in cancer therapy treatment
- Design experiments to determine magnetic behavior and response of polymers

**PAL Facilitator – College Algebra** **August 2014 – May 2015**
SMART Learning Commons, University of Minnesota

- Provided academic support through student-led peer learning sessions in College Algebra
- Engaged students in discussions/activities that promoted a deeper understanding of course concepts
- Prepared activities each week based on lecture content, student feedback, and educational theory

## Activities/Honors:

**Best Student Design – Augmented Human 2016** **February 2016**
**President – Truth in Science and Engineering** **August 2015 – Present**