

Adrian Noel Fedorko

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EDUCATION

- **Northeastern University** - Candidate for B.S. in Electrical Engineering and Physics - *Class of 2022*
- **St. Louis Priory High School** - 4.45 Cumulative GPA - *Class of 2018*

LABORATORY EXPERIENCE

- **Washington University in Saint Louis - Laboratory Research Assistant** - *Summer 2019*
 - Dr. Erik Henriksen's Experimental Condensed Matter Research Laboratory
- **Northeastern University - Laboratory Research Assistant** - *2018-2019*
 - Dr. Nian X. Sun's Advanced Materials and Microsystems Laboratory
- **STARS Program (Students and Teachers as Research Scientists)** - *Summer 2017*
 - Conducted 6 weeks of research in Dr. Sell's lab at St. Louis University to determine the effect of geometry on Manuka honey impregnated tissue engineering scaffold efficacy
 - Prepared research paper and presentation

PROFESSIONAL WORK EXPERIENCE

- **Intern at Living Patriot and ImprovEyes Studio** - *Summer 2018*
 - Product design, development, testing, fabrication methods, static electricity control, LED lighting, and process and workflow sequencing. Co-designed and fabricated ISO 8 clean room
 - Ideation, design, and collaboration with team, consultants, and clients. Operated laser cutter, CNC machine, Formlabs 3D printer, wood shop equipment, and power tools
- **Personal Math Tutor** - Tutored students grades 7 through 12 for hire and as volunteer
- **Panda Express Chinese Kitchen** - Food preparation, service, cashier, and cleanup - *Summer 2016*
- **Old Warson Country Club** - Caddy - *Summer 2015*

PERSONAL RESEARCH PROJECTS

- **Tesla coil** - Researched, studied, designed, and built a Tesla coil - *2017*
[Tesla Coil Part_01](https://www.youtube.com/watch?v=1oQiAMZsecQ&t=11s) <https://www.youtube.com/watch?v=1oQiAMZsecQ&t=11s>
[Tesla Coil Part_02](https://www.youtube.com/watch?v=HjuOtXcJiLU) (*watch it in action at 2:42*) <https://www.youtube.com/watch?v=HjuOtXcJiLU>
- **Sputtering** - Built a DC magnetron sputtering system for physical vapor deposition of copper - *2017*
[DC Magnetron Sputtering System](https://www.youtube.com/watch?v=yJx649DjAL0) <https://www.youtube.com/watch?v=yJx649DjAL0>

AWARDS, ACHIEVEMENTS, and LEADERSHIP ROLES

- **Lawrence Award for Undergraduate Scholastic Excellence** - *2019*
 - Award for having highest GPA for Physics majors
- **STARS Winner for Award for Excellence in Research** - St. Louis University - *Summer 2017*
 - Received special recognition for producing top research paper
- **St. Louis Priory School** - Senior Thesis Award for: "Anodic Effects on Angular Distribution of Sputtered Copper Atoms in DC Magnetron Sputtering" - *2018*
- **St. Louis Priory School** - Mark C. Bussmann Science Award - *2018*
- **Presidential Service Award** - 100+ service hours per year - *2015-2017*
- **Boy Scouts of America** - *2011-2016*
 - **Eagle Scout** - *NOV 11, 2014*
 - **Crew Leader** of 12 people for 12-day trek at Philmont Scout Ranch, NM - *JUN 2016*
 - **National Youth Leadership Training** - Patrol Leader - *JUL 2015*