

Colin Fessler

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U.S. Citizen

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EDUCATION

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- Georgia Institute of Technology**, Atlanta, GA August 2019 - May 2023 (Expected)
- Candidate for Bachelor of Engineering in Mechanical Engineering
 - GPA: 4.00/4.00
 - Faculty Honors and Dean's List Recognition
- Kohler High School**, Kohler, WI September 2015 - June 2019
- GPA: 4.05 / 4.00
 - National Merit Commended Scholar

SKILLS

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- Concepts:** Differential, Integral, and Multivariable Calculus, Linear Algebra, Statistics, Robotics, Programming Fundamentals, Statics, Physics and Chemistry, Solidworks
- Machinery:** Mill, Lathe, Welding, Forging, Drill Press, Grinding, Polishing, 3D Printing and Prototyping
- Communication:** Microsoft Office, Presentations, Written Analysis, Lab Write-Ups, Digital Communication
- Programming:** VPython (intermediate), Matlab (intermediate), HTML (novice)
- Language:** English (native), Mandarin Chinese (intermediate), Spanish (novice)
- Other/Personal:** Ice Hockey Goaltender, Weightlifting, Trombone Player/Instructor, Wheel-Thrown Ceramic Pottery

PROJECTS

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- Maritime Robotics VIP Team** - Georgia Tech Vertically Integrated Projects Program January 2020 - Present
Development of Nekton marine robot to conduct research and exploration of sub-ice waters
- Acquired knowledge of Solidworks, mechanical design, and finite element analysis
 - Analyzed previous designs, iterated improvements, and fabricated components
 - Gained experience in real-world engineering and documentation process of research
- FIRST FTC Robotics** - Kohler High School Robotics Team 2018 - 2019
Medium sized, multifunctional robot built from component Actobotics parts for FIRST FTC competition
- Applied concepts of mechanical drafting, design, prototyping, and testing
 - Formed relationships with local organizations to secure sponsorships
 - Finished 2nd out of 14 teams and 4th out of 24 teams at first and second ever competitions, respectively

EXPERIENCE

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- YMCA**, Sheboygan, WI June 2019 - Present
Fitness Center Attendant
- Independently oversee daily fitness center operations (equipment maintenance, cleaning, laundry)
 - Provide personal training and interact with patrons
 - Red Cross CPR and First Aid Certified
- Blue Harbor Resort**, Sheboygan, WI May 2017 - September 2017
Waterpark Lifeguard
- Jeff Ellis & Associates Certified Lifeguard, exceeded expectations in routine unannounced audits
 - Provided First Aid in live situations and performed multiple rescues
 - Worked as a team to operate waterpark and ensure guest satisfaction

LEADERSHIP

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- Georgia Tech Club Ice Hockey Team** - Student Board Public Relations Officer August 2019 - Present
- Coordinate logistics of transportation for practice and games
 - Act as first point of contact for prospective students and other organizations
 - Manage team website, news, and social media platforms
 - Create digital graphics for use in team media
- Kohler Robotics Team** - Co-Founder, Captain, Build & Design Team Leader September 2017 - June 2019
- Competed in 2018 - 2019 FIRST FTC Robotics Competition
 - Led first-year team to top finishes against experienced competition
- Sheboygan Red Raiders Ice Hockey Team** - Assistant Captain October 2015 - March 2019
- 4-Year Varsity Player, 2 time recognition to Wisconsin All-State Team
 - 2018-2019 Team Award for Most Improved Player
 - 2018 and 2019 Wisconsin Elite Hockey League State Champion
 - 2019 Wisconsin Senior Class Tournament State Champion
- Volunteer Youth Hockey Coaching** September 2015 - March 2019
- Provided position specific coaching to youth goaltenders
 - Acted as a positive role model for young hockey players