

Keith Douglas Kozma

411 Wesley Avenue, Ann Arbor, MI 48103 – 734.476.8149 – kozma@umich.edu

Education and Coursework

University of Michigan, Ann Arbor, Bachelor of Science in Engineering (B.S.E), Class of 2023

Major in Biomedical Engineering, 4.00 Cumulative GPA

Relevant Coursework (current and past):

Cellular and Molecular Biology, Circuits and Systems, Biophysical Chemistry and Thermodynamics, Biomechanics, Material Science, Physics: Electricity and Magnetism, Multivariable/Vector Calculus, Differential Equations, Computer Science

Skyline High School, Class of 2019, 4.00 GPA, Honors

AP Courses:

Physics C Mechanics, Calculus BC, Chemistry, United States History, U.S. Government and Politics, Computer Science Principles

Honors and Awards

William J. Branstrom Prize (2019)

Awarded to first semester University of Michigan students in the top 5% of their respective college class.

University Honors, University of Michigan (2019-)

Dean's List, University Honors (2019-)

Boy Scouts of America – Eagle Scout Award (2018)

CubingUSA US Nationals Speedcubing (2017 & 2019)

Qualified and competed in various Rubik's Cube events.

Swimming

D1 High School State 6 Time Finalist (2016-2019)

D1 High School State Team Champions (2018)

2019 Michigan SEC All Academic Recognition

Awarded to 5 top outstanding scholars – 387 students in high school graduating class.

Experience and Skills

Functional MRI Laboratory Project (2018)

Worked under Professor Douglas Noll and PhD candidate, Amos Cao, to 3D print and construct an anthropomorphic phantom for the fMRI laboratory at The University of Michigan. Tested gelling materials for use in the phantom and studied the effects on B_0 field distortions.

| Solidworks | Fusion 360 | Meshmixer | FDM 3D Printing | CURA Slicer | MATLAB | C++ | Arduino | MultiSim |

| MS Office – Word, OneNote, Excel, Powerpoint | Concepts Sketching | Adobe Suite – Photoshop, Illustrator, Premiere |

| Lifeguarding, CPR, and First Aid Certification (2018-2020) |

Leadership and Service

Eagle Scout Service Project (2017-2018)

Lead fundraising, design, and construction of custom furniture-grade collection boxes and storage shelves used for food collection and distribution to the hungry of the Ann Arbor area.

Ann Arbor Skyline High School Band (2015-2019)

Section leader, French Horn (2018)

Principal Horn (2016-2018)

Ann Arbor Skyline High School Swim Team (2015-2019)

Captain, voted by peers (2018-2019)

Renovation of St. Helena Lighthouse with BSA Troop 4 (2015 & 2018)

Worked with troop members to renovate and maintain the St. Helena lighthouse and grounds.

Appalachia Service Project, Tennessee (2016)

Worked with a volunteer carpentry team to repair and rebuild homes in rural Newport, TN.

Activities and Involvement

University of Michigan Marching Band, Horn (2019-)

Performed in all halftime performance blocks and the Citrus Bowl as a first year student.

“University Band” at Michigan, Horn (2020-)

Performance Concert Band under Dr. John Pasquale.

3D Design and FDM 3D Printing

Developing, iterating, printing, post-processing, and personalizing 3D CAD models.

Electric Go Kart (2020-)

Designed an electric go-kart using CAD, welders, and 3D printers during the COVID-19 pandemic.

World Cubing Association Speedcubing Competitor (2015-)

Competed at 12+ local to national scale Rubik's Cube competitions – 3x3 record: 7.05s.

“The Jazz Resistance” group (2014-2018)

Co-established jazz combo that has played at Ann Arbor venues, including Kerrytown and the Ann Arbor Jazz Festival.

Technische Universität Berlin, Germany Summer Research Program Acceptance (2020 COVID-19 Delay)

Plans to study abroad and participate in research in Europe in the summer of 2021.