

MOHAMMAD AHMAD KHAN

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<https://λ.fyi>

EDUCATION

University of Texas at Dallas

Dallas, TX

Dual Degree – Actuarial Science and Neuroscience (Medical Concentration)

Class of 2026

- GPA: 3.856
- Member of the Hobson Wildenthal Honors College
- Relevant Coursework: Advanced Calculus, Abstract Algebra, Statistics, Organic Chemistry

Naperville North High School

Naperville, IL

Class of 2022

- GPA: 4.661/4
- Awarded Illinois State Scholar, National Merit Scholar, National Latin Exam 2020 Gold Medal, State Seal of Biliteracy in Latin, State Commendation towards Biliteracy in German
- Relevant Coursework: Calculus and Analytic Geometry III (Dual Credit with College of DuPage), Linear Algebra (Dual Credit with College of DuPage), Differential Equations Plus (Dual Credit with University of Illinois at Urbana Champaign).

WORK EXPERIENCE

Naval Surface Warfare Center Crane

Crane, IN

SEAP Intern

June 2021 – July 2021

June 2022 – July 2022

- Worked with Jackal UGV autonomous robots to defuse simulated IEDs
- Used ROS, Python, and OpenCV for computer vision and autonomous navigation routing
- Worked on adapting an NVIDIA Xavier module as a companion computer for autonomous drone navigation
- My team won the Director's Cup, the final competition at the end of the internship

Furche Research Group, University of California at Irvine

Irvine, CA

HSOP Intern

(remote)

Aug 2021 – July 2022

- Researching Kasha's rule in the field of non-adiabatic molecular dynamics by simulating and analyzing molecular motion and interaction
- Working with Linux systems and bash scripts to perform necessary calculations and analyses on UCI computer banks

LEADERSHIP

Naperville City Council Transportation Advisory Board

Naperville, IL

Student Representative

Nov 2020 – May 2022

- Appointed by the board to bring the student perspective regarding transportation issues to board meetings

NNHS Certamen Team

Naperville, IL

Captain

Nov 2020 – April 2022

- Coordinated team meetings, practices, and competitions in lieu of a teacher sponsor
- Led team to regional win and contention for state title
- Also arranged team participation in multiple invitational contests

ADDITIONAL INFORMATION

Skills: Intermediate Latin and German, Graphic Design, Stock/Cryptocurrency Trading

Computer: Python, web development, introductory C++, SolidWorks/CAD Modeling, ROS, GitHub

Clearance: DoD Secret-level

Interests: Rugby, Language Acquisition, Personal Fitness