

NADIA ALMUTLAK

MECHANICAL ENGINEER '21

 /NadiaAlmutlak

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EDUCATION

- **BACHELORS OF SCIENCE
IN MECHANICAL ENGINEERING**
Columbia University | Sep 17 - May 21
GPA: 3.24
 - Part of the KAUST Gifted Scholars Program (KGSP)
 - Saudi Arabian Cultural Mission Scholar

RELEVANT COURSEWORK

- **Computer Graphics and Design**
Conducted market research and designed a mechanical math toy design using drafting and simulation tools with Solidworks
- **Data Science for Engineers**
Completed Python coding projects including stock tickers, transliteration tools, and data visualization
- **Human Centered Design**
Developed a product for energy use reductions and presented at Frog
- **Art of Engineering**
Designed aids for pharmacies as a solution for the Opioid Crisis

EXPERIENCE

- **ROBOTICS INSTITUTE SUMMER SCHOLAR**
Carnegie Mellon University | May 20 - Aug 20 | Remote
Computing accuracy of intent from gaze HMM model and tuning parameters for online robotic system for assistive robotics in the Human and Robotic Partner Lab (HARP) under the supervision of Professor Henny Admoni
- **COURSE ASSISTANT**
Columbia University | Sep 19 - May 20
 - Led Computer Graphics and Design office hours and help rooms
 - Assisted with grading assignments, midterms, and design projects
 - Aided in updating graphics and drawings for assignments
- **ROBOTICS INSTITUTE SUMMER SCHOLAR**
Carnegie Mellon University | Jun 19 - Aug 19
Analyzed data and developed models to detect intent from gaze for assistive robotics systems in the Human and Robotic Partner Lab (HARP) under the supervision of Professor Henny Admoni

- **RESEARCH INTERN**
King Abdullah University For Science and Technology | Jul 16 - May 17
 - Conducted research in Material Science on Zero-Dimensional Perovskites in Visible Light Communications.
 - Worked on determining appropriate methods for fabricating , joining and testing material performance.
- **RESEARCH INTERN**
Imam Abdulrahman Bin Faisal University | Jun15 - Jul15
 - Conducted research in Material Science on on the Impact of Silicon Dioxide Nanoparticles on YBCO Superconductors.
 - Devised testing methods to evaluate the effects of various conditions on the nature, structure, and physical properties of YBCO superconductor.

EXTRACURRICULARS

- **ALPHA KAPPA PSI**
Columbia University | Jan 19 - Current
Assist pledge class president as needed and facilitating communications between pledge class and chapter.
- **WOMEN OF MIDDLE EAST AND
NORTHERN AFRICA (WxMENA)**
Columbia University | Jan 19 - Current
 - Facilitate networking opportunities between current students and Barnard and Columbia's Arab alumnae
 - Organized the Celebration of Arab Women's Excellence conference to highlight talented Arab women in New York city
- **CAMPUS TOUR GUIDE**
Columbia University | Jan 18- Current
 - Work on connecting and communicating with prospective students as part of the Undergraduate Recruitment Committee (URC) and the Global Recruitment Committee (GRC)
- **SKI TEAM**
Columbia University | Jan 20- Current
 - Part of the New Jersey conference of the US Collegiate Snowsport Association

TECHNICAL SKILLS

Microsoft Adobe Suite Python Solidworks ROS (beginner)

MACHINING SKILLS

OtherMill 3-D Printing Laser Cutting Lathe Woodwork

LANGUAGES

English Arabic Russian (Elementary)