

A disciplined and hard-working mechanical Engineering student with a solid background in STEM and a thirst for knowledge. Passionate about actively shaping tomorrow's world of technology and advancing innovation. Especially fascinated by aerospace challenges as well as the use of engineering to help people.

Education

2022 – present [BEng Mechanical Engineering], Aston University (Birmingham, UK)

- Design and Engineering: Designed, built, and tested an electric car in a group of ten within 12 weeks. On race day, I was chosen to race the vehicle around campus in the annual competition.
- Engineering Science: Gained foundation knowledge in statics, fluid- and thermodynamics, built on aerodynamics knowledge gained at pilot school.
- French II: Additionally chosen French module.

2013 – 2021 Gymnasium Oberalster (Hamburg, Germany)

Abitur (equivalent to A-levels) in: Advanced Maths, Advanced Computer Science, Politics & Economics and Advanced English. Abitur grade of 1.3 (equivalent to AAA).

Achievements

June 2022 Pilot Licence: certified to fly single engine planes (PPL-A). Total of 98 hours airborne, including emergency manoeuvres, special landing procedures, flight in five different cities and multiple solo flights of up to five hours.

June 2019 – January 2020 University of Hamburg: accepted to the University of Hamburg to study undergraduate physics alongside standard secondary school.

January 2018 – June 2018 D'Overbroeck's Boarding School (Oxford, UK)

Successfully participated in exchange program in year 10, gained insight to British school systems, took extra STEM courses on experimental physics, gained independence, expanded horizon both academically and personally

2009 – 2020 Hafez Language School (Hamburg, Germany): weekend private school to obtain an additional Farsi graduation certificate (A-level equivalent).

Work Experience and volunteering

Student Ambassador- Aston University

- Promoted the university and Engineering courses to potential new students by running various events such as campus tours and lab taster sessions. Enhanced communication, public speaking and organisation skills, adapted to different group's needs to provide best possible insight into my course and university.

Part time work (2022-present)

"Diskussion Leader"- Sprachbruecke Hamburg E.V

- Volunteered at refugee camp to teach German, removing language barriers in order to facilitate their integration into German society.
- Prepared discussion topics and classes for groups of up to twelve people, actively encouraged every person to take part in the discussion, no matter their linguistic level. Positively motivated them to not fear mistakes and happily observed participants becoming more and more involved in the discussions.

Weekly volunteering (2021-2022)

Tutor- Studienkreis GmbH

- Obtained tutoring certification and supported final year students in achieving their academic goals in math, physics, computer science and English. Organised lessons for groups of two to five students and designed various exercises and test questions according to my students' needs and backgrounds.

Part time work (2020-2022)

Tutor- Gymnasium Oberalster Hamburg

Part time work (2019 to 2021)

- Helped students from year 8-12 in improving their math, physics and English skills during my final years at secondary school, assisted them with their exam preparations but also with exam fear and studying strategies.

Banker- Hamburger Sparkasse AG (Haspa)

3-week Work experience (Mai 2019)

- Got an insight into financial services for private clients as well as corporate clients, private banking, market analysis and loans by actively engaging in client meetings and reading contracts and regulations and curiously asking questions.

Assistant- Cedco GmbH

Part time work (2019-2022)

- Assisted at an Engineering Company focused on designing and manufacturing water filtration systems and oil/gas pipelines globally
- In charge of translating emails from German to English and Farsi, organising data bases and calling manufacturers in various countries to organise meetings and project reviews.

Extracurricular and Projects

Founder/ President- Arts and Crafts Society

Aston University (December 2022-present)

- Established a society of 35 members. Lead events and workshops for up to 40 people to express their creativity in diverse ways and collaborated with other societies such as WEST (Women in Engineering, Science and Technology) and CAD

Events Manager- Women in Engineering Society

Aston University (September 2022-present)

- Co-organised networking events, interviews with women in STEM as well as Q&A sessions to build a mutual support network for other women in STEM. Connected with representatives of different companies and engaged in fundraising and marketing projects of the society.
- Improved society's organisation structure by leading multiple of the weekly committee meetings, encouraging other people's ideas and contributing thoughtfully.

Member- CAD/ Engineering Society

Aston University (September 2022-present)

- Created products for Aston University's Christmas Market stall. Designed a Christmas decoration that was laser cut and then sold to the general to help raise funds for the society.
- Produced my own lego person from engineering drawings and had it 3D printed in FDM.
- Supported the weekly sessions by being an active member and ensured others enjoyed their time.

Student Representative for Mechanical Engineering

Aston University (September 2022-present)

- Communicated with the university on behalf of my course and year, conducted surveys and interviewed peer student to collect data. Participated in council meetings, presented critique points and suggested possible solution concepts

Design Challenge- Engineering for People

Aston University (November 2022)

- Additionally chose to participate in a one-week sustainability project organised by EWB (Engineers without borders) to find a possible energy and healthcare solution for the city of Govan. Chosen as top five participating groups.
- Designed and researched an indoor farming solution using local resources in a group of four and presented the idea in a detailed report and a presentation in front of the jury

Jury Member- Debate Society

Gymnasium Oberalster Hamburg (2019-2021)

- Co-organised debate competitions after participating in them for a year. Rated debate performances and suggested improvements to participants. Learnt effective public speaking techniques and supported students in preparing speeches accordingly

Interests and Hobbies

- **Photography** I enjoy using my spare time to add to my photography portfolio (<https://shahrestani.de>)
- **Swimming and Dancing** As part of the Swimming as well as dancing club of my university, I keep fit by working out with a group of friends and enjoy occasionally competing against other universities.
- **Public Speaking** In my freetime, I enjoy working on my public speaking skills and watching many Ted talks and helping the Aston TedX Society in preparing the next speeches at the university.

References Available on request