

ABDULLAH ARAFAT

🌐 [abdullah-arafat.github.io](https://github.com/abdullah-arafat) ✉ abdullah.arafat@utah.edu

☎ +1(801) 995 3654

🌐 [linkedin.com/in/abdullah-arafat](https://www.linkedin.com/in/abdullah-arafat)

📺 [youtube.com/c/AbdullahArafat](https://www.youtube.com/c/AbdullahArafat)

EDUCATION

The University of Utah

M.S, Mechanical Engineering

(Aug 2022 - May 2024)

CGPA: 3.5/4.00

Khulna University of Engineering and Technology (KUET)

B.S, Materials Science and Engineering

(Feb 2017 - Mar 2022)

CGPA: 3.62/4.00 (top 10%)

Dean List Award (for academic excellence)

KEY ACHIEVEMENTS

- Wash Innovation Challenge 2018 (**Bhutan**)
Finalist among 8 countries
- 9th International Olympiad On Astronomy and Astrophysics (IOAA) (**Indonesia**)
Finalist among 41 countries
- Bangladesh Astro Olympiad
1st/500 participants
- Ignition 2018 CAD Contest
1st /150 participants
- ASME CUET Extrusion CAD Contest
2nd/100 participants
- IPE Fest 2018 CAD Contest
2nd/75 participants

RESEARCH PUBLICATIONS

5 International journal publications

1 International book section

1 Conference publication

LANGUAGE SKILLS

Bangla (Native)

English (Fluent)

HOBBIES

Stargazing, 3D modeling, Cycling

SKILLS

SOLIDWORKS, AutoCAD, AutoCAD Plant 3D, ANSYS, ABAQUS, Fenics, Blender, Key Shot, Python, C++, Bash Scripting, LAMMPS, VMD, Ovito, VESTA, Materials Studio, Adobe Illustrator CC19, Adobe Photoshop CC19.

CERTIFICATIONS

Certified SOLIDWORKS Professional (CSWP)

Score: 318/318, Credential ID: C-A6HWVU5MSB

Certified SOLIDWORKS Associate (CSWA)

Score: 240/240, Credential ID: C-49FPLUKRNS

PROFESSIONAL EXPERIENCES

Emprotec Limited (Nov 2018 - Aug 2022)

Design Engineer

- Designed **P&ID of 6 underground and aboveground tanks**. Designed **P &ID of 15 centrifugal pump systems** for Delta LPG limited. Designed **reticulation systems for 4 residential apartments**. Designed **2 LPG Plant layouts** for Meghna LPG and Faridpur AM Industry. Designed **Fire Safety layout, Firewater P&ID, and Instrument air system for 3 other LPG Terminals**.

FabLab KUET (Aug 2019 - Mar 2020)

Operator

- Fabricated **6 undergraduate thesis projects** using a **3D Printer (Ultimaker 3)**. Fabricated **1000 key rings** for two inter-university events using a **laser cutter (Epilog Laser MINI 18)**. Designed **3 mechanical parts** using a **CNC Milling machine (Roland MDX-540)** and maintained all the lab instruments.

Bangladesh Steel Re-Rolling Mills Ltd. (BSRM) (Feb 2020 - Mar 2020)

Intern

- Gained practical knowledge on metallurgy and work environments in the industries

TEACHING EXPERIENCE

The University of Utah (Aug 2023 - Current)

Teaching Assistant (ME EN 3315 - Mechanics of Materials Lab)

- Conducted various experiments including Tensile test, Torsion test, Riveted joint design, Bending test, Buckling test, etc.

EXTRA-CURRICULAR EXPERIENCES

- (2021 - Current) **Official SOLIDWORKS Champion**
- (2018 - 2022) KUET Career Club - **Head of IT and Resource**
- (2017 - 2020) Spectrum (Professional Skill Development Club) - **Chief Technology Officer (CTO)**
- (2018 - 2019) Youth Opportunities (YO) - **Campus Ambassador**