

Arsal Naveed

Nationality: Pakistani **Date of birth:** 14/02/2004 **Gender:** Male **Phone:** (+92) 3157833893

Email: ranaarsalnaveed@gmail.com

LinkedIn: [Arsal Naveed](#)

Home: Mohallah Tillah Jinnah Gate, 51480 Pasrur, Sialkot (Pakistan)

ABOUT MYSELF

I have a strong foundation in Design and Manufacturing, with hands-on experience in Parametric Optimization of CNC Milling for Thin-Walled Components and many design related projects including Custom Winch Design and Seed Sowing and Plant Bed Making Machine.

I am particularly passionate about:

- Machine Design
- Additive Manufacturing
- Subtractive Manufacturing
- Engineering Materials and Metallurgy

I am currently seeking opportunities to advance my expertise in Mechanical Industry, with the goal of contributing to the advancement, development and research in global technology.

EDUCATION AND TRAINING

BS in Mechanical Engineering

National University of Technology [01/08/2020 – 30/06/2024]

City: Islamabad | **Country:** Pakistan | **Website:** <https://nutech.edu.pk> | **Field(s) of study:** Engineering, manufacturing and construction | **National classification:** 7 | **Number of credits:** 135 | **Thesis:** Design and Fabrication of an Innovative Clamping Mechanism and Optimization of Machining Parameters for Improved GD&T

UPG Sustainability Leader

United People Global [15/02/2022 – 15/05/2022]

City: Remote | **Country:** United States | **Website:** <https://unitedpeople.global>

Amal Fellow

Amal Academy [01/11/2022 – 01/02/2023]

City: Islamabad | **Country:** Pakistan | **Website:** <https://amalacademy.org>

WORK EXPERIENCE

Internee

Pakistan Aeronautical Complex [21/08/2023 – 29/09/2023]

City: Kamra | **Country:** Pakistan | **Website:** <https://www.pac.org.pk> | **Name of unit/department:** Mirage Rebuild Factory - Business/sector: Manufacturing

- **Engineering Knowledge:** Keenly observed Aircraft and Engine overhauling and developing proficient knowledge of Propeller and Turbo Jet Engines

- **Design and Manufacturing:** Keenly observed the fabrication process from designing till the manufacturing, quality evaluation and installation of aerospace parts

PROJECTS

[01/10/2023 – 30/06/2024]

Design and Fabrication of an Innovative Clamping Mechanism and Optimization of Machining Parameters for Improved GD&T

Designing and fabricating a an 8-point Clamping Mechanism to achieve maximum roundness and flatness by varying machining parameters

- **Manufacturing:** Working on manual lathe and CNC milling to optimize geometry and machining parameters such as, Spindle Speed, Feed Rate, Depth of Cut and Clamping Forces etc.

- **Research:** Defining tools required, their parameter ranges, using Taguchi's Method for DOE, performing ANOVA analysis and other statistical techniques

[01/03/2021 – 15/04/2021]

Seed Sowing and Plant Bed Making Machine

Designing and fabricating a working prototype to automatically sow seeds and make plant bed

- **Innovation:** Developed a machine that can assist farmers in seed sowing through simple mechanisms

- **Advancement:** SSPBM can aid in farming and reducing farmer's efforts by 90%.

HONOURS AND AWARDS

[28/04/2024] ASME

Winner of SpeedCAD Competition at ASME EFX '24 NUST-CEME

[22/05/2022] GIKI

Winner of All Pakistan Science Fest GIKI

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C2 READING C1 WRITING B2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1