

Akash Singh

Male

B.Tech, Mechanical Engineering
NIT Uttarakhand

+91-9936075048

akash.mec17@nituk.ac.in

OBJECTIVE

To pursue a career with a company having a global vision that encourages creativity and offers an opportunity to learn and develop for deployment in professional as well as personal life, I wish to use and enhance my technical knowledge and skills for the benefit of the organization.

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	National Institute of Technology, Uttarakhand	6.56/10	2017-2021
Senior secondary	State board	87.6%	2014-2016
Secondary	State board	86.3%	2012-2014

CAREER RECITAL

Present Company: GAS TURBINE RESEARCH ESTABLISHMENT (GTRE), DRDO

Profile Summary: Gas Turbine Research Establishment (GTRE) is a laboratory of the Defence Research and Development Organization (DRDO). its primary function is research and development of aero gas-turbines for military aircraft. GTRE has been developing Gas-turbine Engine (KAVERI Two Spool Turbo-Fan with After-Burner), GHATAK (Derivative of KAVERI), Small Turbo-Fan Engine (STFE-Two Spool with centrifugal compressor), Small Turbo Jet Engine (STJE), as well as aerospace and defence products.

Assignment: -

Working With : **GAS TURBINE RESEARCH ESTABLISHMENT (GTRE), DRDO**
Period Of Consortium : June 2022
Designation : Graduate Trainee
Department : Project Management Office

PROFESSIONAL SNAPSHOT

- Part of assembly team during Engine preparation and dispatch activity of Kaveri Engine and its derivative and small turbo fan engine.
- Visited testbed facility for test runs of Kaveri Engine and its derivative as well as General-Electric Engine-GE404.
- Utilized Siemens NX, Hyper Mesh and Ansys software to get an experience in the next generation of design, simulation, and manufacturing solutions.
- Data Analysis and presentation to senior management and update to vellum database.
- Coordinated with various departments and gathered information about materials pertaining to gas turbine components.
- Ensured that all production materials were available and communicated to procurement department when needed.
- Performed daily operational checks within department to verify data generation, collection, handling, analysis, and reported the same according to the standard of preparation.
- Checked all drawings and ensured that all designs were followed and all corrective measures were taken in case of discrepancies.

Visited Test Rig In GTRE:

Low Pressure Compressor (Fan), High Pressure Compressor, Turbine, Combustor Liner, Additive Manufacturing (3D-printing, Titanium alloy), EBW (Electron Beam Welding), Instrumentation Group (Thermocouple-Ungrounded, Grounded, Exposed, Pressure measurement Device-Pitot tube), DECU (FPGA-Field Programmable Gate Array).

IT FORTE& CERTIFICATIONS

- Computer Aided Design (Unigraphics NX)
- Computer Aided Engineering (Hyper-Mesh, Ansys-Workbench)
- Product Life cycle Management (Teamcenter Siemens)
- MS-Office (Word, Excel, Power Point)

INDUSTRIAL VISIT

- Duration: 1 Month
- Organization: Gorakhpur Railway Workshop
- Alaknanda Hydroelectric Power Project (Head-946m, Capacity-330Mwatt, No. of Unit-4, Francis Turbine)

PROJECTS

- **HEAT EXCHANGER:** Fabricated a counter flow heat exchanger with variable mass flow rate to create a more uniform temperature difference between the fluids, over the entire length of the fluid path.
- **HOME AUTOMATION:** Developed an advanced home automation application using Arduino Uno and Bluetooth sensor to control electrical appliances from anywhere within home.
- **WEB DEVELOPMENT:** Developed an android application and webpage using Python, Django-framework, HTML, CSS, Bootstrap-4. Data base-SQLite.

KEY SKILLS & COMPETENCIES

- Leadership and Creative Skills.
- Team Working Skills and Critical thinking mindset.
- Strategic Planning Skills and Excellent Technical Skills.
- Ability to work under pressure and face challenges.

EXTRA-CURRICULAR ACTIVITIES

- Participated in soft skill workshop organized by the NIT.
- Attended a five-day Water Bottle Rocket competition organized by NIT.
- Active member and volunteer of Positive Thinker club in college.
- Participated in street play in Institute Gathering (IG) at NIT.
- Participated in Cricket match (Sports Meet) organized by NIT and GTRE DRDO.
- Attended Ansys workshop Organized by GTRE, DRDO

LANGUAGE PROFICIENCY

- English
- Hindi

ONLINE PRESENCE

[LinkedIn \(linkedin.com/in/akash-singh-802919229\)](https://www.linkedin.com/in/akash-singh-802919229/)

PERSONAL DETAILS

- Date of Birth : 15th August 1999
- Nationality : Indian
- Address : 912/Scientist Hostel-3, Phase-I Township, Bengaluru, Karnataka-560093

I hereby declare that all the above-mentioned information given by me is true and correct to the best of my knowledge and belief.