

Curriculum Vitae

Name: Mr. Swapnil Sukhdev Adhave

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Date of Birth: 24th July 1994



Academic Credentials

Class / Degree	Specialization	Institution	University	Year	% / CGPA	Class
M. Tech.	Heat Power Engineering	Walchand College of Engineering Sangli	Shivaji University Kolhapur	2019	8.25	Distinction
B.E.	Mechanical Engineering	PLITMS BULDANA	S.G.B.A.U., Amravati	2016	8.75	Distinction

M. Tech. Project:

Title: Optimization of environmental control system of fighter aircraft using CFD and Cockpit heat load analysis.

Description- To study of Environmental Control system (ECS) of fighter aircraft. Identify the hot spot inside the cockpit volume using CFD analysis at predetermined elevated cabin mean temperature. Also to determining the effect of cold air mixing with hot air inside cockpit volume to modify the ECS of fighter aircraft. CFD analysis to know the effect of variation of mass flow rate at different location of ECS. Validation of cockpit using CFD analysis on steady and transient simulation of cockpit and analytical heat load calculation. For improving the air conditioning and comfort inside the cockpit.

Key Research Areas:

- Design and modeling of Fighter aircraft cockpit duct system.
- CFD simulation of Cockpit duct system and internal flow simulation cockpit.
- Validate the results by using analytical and numerical method.

- **Seminar (Semester 1st):**

Title: Thermoelectric Refrigeration System (TRS)

Description- To study TER as a substitute for present refrigeration system to overcome the all demerits

of present refrigeration system. Producing eco-friendly technique for refrigerating effect.

- **Mini Project (Semester 2nd):**

Title: CFD analysis of Li-ion battery thermal management.

Description- To study the issues related to the batteries in electric vehicles in order to find the solutions to increase the battery life. CFD analysis of Li-ion battery to analyze thermal effect.

Experience

- **Hindustan Aeronautics LTD. Nashik (Aircraft Upgrade Research and Design Centre)**

Period: July 2018 to July 2019.

Designation: M.Tech Project Trainee (Environmental Control System Group).

Job Profile:

- Modeling and modification of Environmental Control System and Cockpit duct pipe system by using CFD simulation of fighter aircraft.
- Optimization of fighter aircraft air conditioning.

Computer/Software Proficiency

1. ANSYS (Modeling, Meshing, Space claim)
2. CFD
3. FEA
4. CATIA
5. AutoCAD
6. MSCIT

Workshop

1. Workshop on Computational Fluid Dynamics (CFD) at WCE Sangli.
2. "Project Management workshop" at WCE Sangli.
3. Workshop on "Research Methodology" at WCE Sangli.
4. Entrepreneurship Awareness Program.
5. Plant training at Electric Locomotive Workshop, central railway Bhusawal.
6. Completed Tech-educating India convection from BOSCH at Amravati.
7. Workshop on Six-sense Robotics under the guidance of ELAN' 14 IIT Hyderabad.

Awards, Achievements and Recognition

1. Regional level certificate for Basket ball and Hand ball.
2. Certification for National Service Scheme.
3. Winner of Zonal Basket Ball Tournament.
4. University zonal participation in Volley ball and Basket Ball.
5. Convener of “The Institution of Engineers” Student chapter at PLITMS Buldana.

Date: 08-04-2021

Place: Aurangabad.