

Soheil Hashemi



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- Aerospace Engineering Department
Sharif University of Technology, Tehran, Iran

B.Sc. in Aerospace Engineering, 2010- 2015

- Faculty of new sciences and technologies
University of Tehran, Tehran, Iran
- Allameh Amini High School

M.Sc. in Energy systems engineering, started at 2020

Diploma in Mathematics and Physics 2006-2010

Work Interests

- Power Plant Cooling systems
- Power Generation cycles
- Heat Transfer
- Energy and Environment
- Computational Fluid Dynamics
- Project engineering
- Project Management

Honors and Awards

- Being a Member of National Elite Foundation, Sep, 2009.
- Bronze Medal of Iran National Chemistry Olympia (among 40 top students)- Aug 2009
- Top 0.1% among more than 500'000 students in national university entrance exam- Jul. 2010

Selected Projects	<ul style="list-style-type: none"> • Providing engineering solution and designing dry mechanical draft type cooling system for hybrid wet-dry cooling system at Besat power plant for reducing water consumption (project manager) • Research and Engineering for Construction of the Sahand Power Plant Supplementary Cooling System Research and Engineering for Construction of the Shazand Power Plant Supplementary Cooling System (Thermal Power Plants Holding company, Ministry of enegy) (assistant project manager, project manager) • Feasibility study of different solutions for replacement of wet cooling towers of Montazer Ghaem power plant to deal with water shortage and supervision of construction (Montazer Ghaem power plant) • Feasibility study of different solutions for replacement of wet cooling towers of Isfahan power plant to deal with water shortage in that area (Thermal Power Plants Holding company, Ministry of enegy) • Engineering consulting services for determining optimum cycle design point parameters and selection and sizing of main cooling system of 4 combined cycle power stations of Mitsubishi and Marubeni (Thermal Power Plants Holding company, Ministry of energy) • Engineering consulting services for determining optimum cycle design point parameters and selection and sizing of main cooling systems of 5000 MW combined cycle power stations (Thermal Power Plants Holding company, Ministry of energy) • Technical assessment of main cooling system of Shahid Montazeri power plant and providing enginnering solutions
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	<p>for improving system performance (Shahid Mohammad Montazeri power plant)</p> <ul style="list-style-type: none"> • Preparing technical offer documents for EPC tender of constructing hybrid wet-dry type cooling tower at Mofatteh power plant for reducing water consumption jointly with Hirbodan Management company • Design studies for dust collector system of steel factory in order to meet environmental regulation and standards (Foolad Paya company) • Design and performance analysis of different types of Industrial Heat Exchangers • Study of heat recovery system and combined cooling, heating and power generation systems • Study and selection of optimum system for increasing gas turbine power output via inlet air cooling (Abadan, Mahshahr) • Statistical Analysis of meteorological data for determining adequate design point and its effect on quality of power plant operation, TPPH (Iran Thermal Power Plant Holding) • study of power plant vacuum systems and computer simulation of steam ejector, Ghom power plant • Performance analysis of power plant air cooled condenser under various weather conditions, Ghom power plant • Computer simulation of complete power plant and performance analysis, Eslamabad power plant
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Working Experiences

- **Center of Advancement in Modern Energy Systems**
Power plant projects expert
<http://energytech.sharif.ir>

2015-Up to now

Computer Skills

- **Technical Software:** Fluent (excellent), Gambit (excellent), CFX (fair), HTRI (excellent), Thermoflow (excellent), Chemkin (fair), Gasturb (good) , Solid Works (good), EES (fair), Tecplot (good)
- **Mathematical Analysis:** MATLAB® (good)
- **Programming Languages:** C++ (fair)
- **Graphics:** CorelDraw (fair)

Languages

- **Persian** (Native Speaker)
 - **English** (Proficient)
 - **Turkish** (Proficient)
 - **Arabic** (Beginner)
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References	Name	Title	Address	Phone and Email Address
	Masoud Darbandi	Professor	Sharif University of Technology, Tehran, Iran	Phone: (+9821) 66164644 Email: Darbandi@sharif.edu