

MIRZA HAMMAD BAIG

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PROFESSIONAL SUMMARY

Motivated and smart engineering graduate with proven academic credentials and a strong aptitude for research for the betterment of environment and society.

WORK HISTORY

University of Stuttgart - Student Assistant
Stuttgart 12/2016 - 03/2019

- Assisted various Phd researches in combustion and ambient air quality control
- Experimental evaluation of combustion parameters in pilot pulverized fuel power plant
- Air quality measurement campaigns in Stuttgart city

K-Electric BQPS I - Trainee Engineer-Generation
Karachi, Sindh 06/2015 - 08/2016

- Undergone training in maintenance and operation of thermal power plant
- Final placement in operations department
- Performed shift operation engineer duties
- Responsible for overall smooth working of all process parameters

PROJECTS

- Determination of combustion and ignition boundaries for a pilot-pulverized fuel burner. (Master Thesis)
- Design of a crystallizer for de-waxing of edible oil. (Bachelor Thesis)
- Planning of measurement strategy for indoor pollutants as a function of outdoor pollutants in China
- Design of a waste water treatment plant on research scale
- Design and fabrication of a remote control inspection device for American Society of Mechanical Engineers conference

HONORS & AWARDS

- DAAD final stage scholarship for master thesis
- Certificate of appreciation from American Society of Mechanical Engineers (ASME) NED student section
- Certificate of appreciation from Govt. Delhi College

SKILLS

Mechanical engineering
Environmental engineering
Experimental combustion evaluation
Air quality measurements
Power plant engineering
MS Excel
Team work
Leadership potential
Communication and presentation

EDUCATION

University of Stuttgart
Stuttgart, BW • 10/2019

Master of Science:
Environmental & Process Engineering (WASTE)

NED University of Engineering and Technology
Karachi, Sindh • 12/2014

Bachelor of Engineering:
Mechanical Engineering

LANGUAGE SKILLS

- Urdu (Mother tongue)
- English (C1)
- German (A2-Passed, B1-Registered)

REFERENCES

- Dr.-Ing. Ulrich Vogt
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- Reyhane Youssefi, M.Sc
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- Dipl.-Ing. Ioannis Papandreu
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