

CURRICULUM VITAE

NAME : AKRAM ABDU MOHAMED ABDU

I. Personal Data

Date of Birth : 24. 10. 1961

Marital Status : Married

Native Language : Arabic

Foreign Language : English Good
German Good

Address : Power Mechanical Engineering Dept.,
Faculty of Engineering; Alexandria University;
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II- Qualification

- Ph.D. in “ Air Conditioning “; 1994
Channel System at “ Institute of Applied Thermodynamics and Air Conditioning “ ,
Essen University, GERMANY; jointly with “ Power Mech. Engg. Dept.” , Alexandria
University, EGYPT.
- “PNDS”; Prufung zum Nachweis Deutscher Sprachkenntniss; Certificate,
1991. Essen University, GERMANY
- Recognition as equivalent to German degree of “Diplom Engineer”
Essen University, GERMANY.
- M.Sc. in “Solar Energy” June, 1989
“Power Mech. Engg. Dept.”, Alexandria University, EGYPT.
- B. Sc. In “Mechanical Engineering”, June, 1983
“Power Mech. Eng. Dept.”, Alexandria University, EGYPT
Final Grade of “Distinction with Degree of Honour”.

III- Advanced Studies

a- Advanced courses for :-

- Computer skills & Programming
- Numerical Analysis;
- Heat & Mass Transfer;
- Solar Energy;
- Refrigeration and Air Conditioning.

b- Intensive Course with Certificate in “Material Properties”;
Aachen University, GERMANY, Aug. 1986

c- “ZDF” Certificate; - Zertificat fur Deutsch ALS Fremdsprach-,
Iserlohn, GERMANY, 1991.

d- Workshop in “Energy Conservation in Heat Exchanges”, May 1994
“Energy Planning Organization“. EGYPT

e- Workshop in “Water Treatment”, Dec. 1994
“Development Research & Technological Planning Center”, EGYPT

IV- Academic Teaching & Demonstration Experience

* **Assistant Lecturer** , from Oct. 1983 to May 1990, for the following topics;

- Thermodynamics
- Heat Engines
- Refrigeration and Air Conditioning
- Thermal Power Stations

At the following Institutes: -

- a- **Faculty of Engineering**, Alexandria University;
 - Power Mechanical Engineering Dept., Production Engineering Dept., Electrical Engineering Dept., Marine Engineering Dept., Textile Engineering Dept. and Nuclear Engineering Dept.
- b- **Faculty of Agriculture**, Alexandria University;
 - Agriculture Engineering Dept.
- c- **Faculty of Education**, Alexandria University
 - Technical Branch for “Refrigeration & Air Conditioning”.
- d- **Arab Maritime Transport Academy**, “United Arab nations”
 - * Assistant Lecture, for the level of chief Engineering part A.
 - * Co- assistant with Examiner Committee, for the level of Second Marine Engineers & Chief Engineering Part A.

** **Assistant. Professor**; Since March 1994 till Now;

- a- **Faculty of Engineering**, Alexandria University, For the level of;
Undergraduate Students, at Mechanical, Textile, Production, Electrical and Marine Engineering for the following topics:
Refrigeration and Air Conditioning, Thermodynamics, Heat Engines and Thermal Power Stations.
Postgraduate Studies – For the degree of, M.Sc., Ph.D., and advanced Courses for Refrigeration & air conditioning Diploma ;-
 - Applications in Air conditioning,
 - Measurements and control equipment and,
 - Air conditioning & Refrigeration Equipment.
- b- **Arab Academy for Science and Technology**, “AAST”, “United Arab Nations” for the subjects;
“Thermodynamics & Thermal Engineering, Air conditioning & Refrigeration equipments, and System design”.
- c- **Faculty of Education**, Alexandria University;
Technical branch for “Refrigeration & Air conditioning”;
- d- **Faculty of Air Defense**, Ministry of Defense,
For the subject; of “Heat Engines”.

V- Research Activities and Projects

- "Design and testing of solar air heaters for industrial drying"
Under the supervision of Supreme Council of Universities, Alex. Univ., and Wisconsin Univ. "U.S.A.", July 1983-May 1985.
- Collection, Preparation and Publishing of "National Guide of Scientific Engineering Periodicals for all Egyptian Universities and Research Centers, 1986.
- "Design of Stationary Finite Length V-Through solar collector"
International Journal of solar energy; vol. 10, pp. 63-81, 1991.
- "Application of Solar Energy in Air conditioning"
Visiting Research Assistance, Solar Energy laboratory, Renewable Energy Department, Florida University, U.S.A., 1992.
- "Industrial Solar Concentrators"
Under the supervision of Scientific Research Academy, and Alexandria University, July 1995 – Aug. 1996.
- "Effect of cold surface and ambient conditions on Water extraction from atmospheric air"
Akram A. M., etal 12th international Mechanical power conference "IMPEC 12"
- Translation & Validation of "Operational survey of existing Egyptian pre-cooling facilities"
By Jim Hughes. {USAID Project no. 236 – 0240}
- * Supervision Of "Research Studies and Projects" for the following topics: -
 - "Dehumidification by Chilled Water Sprayers",
 - "Water Extraction From Atmospheric Air",
 - "Cooling Coil Design and performance",
 - "Control System for Central Air conditioning",
 - "Cooling Load Analysis for Hospital Air Conditioning System".
 - "Thermodynamics of Alternative Refrigerants"
 - "Cool Storage Systems Analysis and Practice",
 - "Clean Room Applications",
 - "Water Handling"; Properties & Practice,
 - "Central Air Conditioning System Design",
 - "Design of Refrigerated Truck".
 - "Design of Dual purpose Cold Store".
 - Refrigeration & air Conditioning Practice "Equipment Specification, Selection,

Installation, Operation, Maintenance and Trouble Shooting”.

VI- Membership of Engineering Organizations

- Member of the Egyptian Engineering Syndicate
- Member of the American Society for Heating, Refrigeration, and Air Conditioning Engineers “ASHRAE”, 1992-94
- Board Member of the Egyptian Cold Chain Association “ECCA”

VII- Practical Experience

- GULF PETROL COMPANY “GUPCO”
Urgada, EGYPT; Aug. 1980.
- SIMMERING – GRAZ – PAUKER “SGP”;
Vienna, AUSTRIA; July - Aug. 1982.
“Diesel Engines Manufacture”;
- L. &C. STEINEMULLER GMBH
Gummersbach –GERMANY; June 1989 – Aug. 1989.
“Boilers Manufacture”

VIII- Professional Work and Consultations.

19 years experience in Mechanical systems design, Equipment selection, Tenders evaluation, Supervision of erection, Operation and Maintenance Planning.

Technical consultation are being carried out, Since 1994, in Mechanical and Thermal Engineering; including, Air conditioning, Refrigeration, Ventilation, Heating systems, Boilers and Industrial Drying Processes. In additional to Energy Management, Operation & Maintenance Programs, Systems performance analysis & Trouble Shooting.