

Curriculum Vitae

Personal Details

Name: Dr. Chalang H. R. Muhammad

د. چالانگ حمەرشید محمد

Date & Place of Birth: July 1st. 1976

Marital Status: Married, two children

Height: 176 cm

Weight: 65 kg



Contact Details:

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Postal Address: Chemical & Petrochemical Engineering Department - University of Salahaddin /Erbil – Iraq

General specialization: Mechanical Engineering **Specific specialization:** Control System

Languages: English – Kurdish – Arabic

Education

2015 Ph.D. Mechanical Engineering, National University of Malaysia (UKM), Malaysia

2003 M.Sc. Mechanical Engineering, University of Salahaddin Erbil, Iraq.

1997 B.Sc. Mechanical Engineering, University of Salahaddin, Erbil, Iraq.

1993 Baccalaureate, Roshanbeer Secondary School, Suleimanyie, Iraq.

Employment History

2025 Head of Chemical & Petrochemical Engineering department, College of Engineering, University of Salahaddin-Erbil.

2022 Director of Engineering Consulting Bureau (ECB), College of Engineering, University of Salahaddin-Erbil.

2016 Lecture, Department of Mechanical Engineering, College of Engineering, University of Salahaddin-Erbil.

2006 Dean assistant of College of Fine Arts University of Salahaddin-Erbil.

2005 Director of University's Student Dormitories.

2004 Assistant lecturer, Department of Mechanical Engineering, College of Engineering, University of Salahaddin-Erbil.

1998 Lab Assistant, Department of Mechanical Engineering, College of Engineering, University of Salahaddin-Erbil.

1997 Mechanical Engineer, Ministry of Works and Inhabitation, Directory of Erbil Roads and Bridges in charge of repair and maintenance of Equipments.

Membership of Professional Bodies

1997 Member of the Kurdistan Engineers Union.

2023 Member of the Kurdistan Teachers Union.

Research interests:

- Turbine Modelling and Controlling
- Turbine Optimum Behaviours (Best Efficiency Point)
- Constructing mechanical Controlling System
- Controllability
- Observability
- Programming (PLC, Arduionu)

Teaching Subjects:

strength of material, descriptive of geometry, MATLAB, engineering drawing, mechanical drawing, control engineering, power plant, programmable logic controllers PLC, process dynamic and control

Administrative Academic Activity:

- Member of the Examination Committee of Mechanical Engineering Dept 2005-2006
- Member of various Procurement Committee at the College of Engineering
- Member of Student Advising Committee since 2014
- Member of Engineering Consulting Bureau High Staff 2022
- Member of Engineering College Committee Staff 2025

Significant Publications:

1. "Study of Control System of a small Pelton turbine", published in a "Zanco" Journal of Pure and Applied Sciences, Salahaddin University, Vol. 16, No. 5, 2004
2. Hamarasheed C. , Haris S.M. & Nopiah Z.M. 2012. Weighted multiple model adaptive *LQG* and *PI* control for a hydro turbine plant. *International Conference on Advanced Mechatronic Systems (ICAMechS)*: 656 – 661.
3. C. Hamarasheed, S.M. Haris & Z.M. Nopiah 2013. Weighted Multiple Model Adaptive PID

Control with Crossover Frequency Shift Tuning for a Hydroturbine Plant. *Applied Mechanics and Materials* Vols. 278-280 (2013) pp 1644-1647

4. Mohammed, C. H. R., Haris, S. M. and Nopiah, Z. M. 2013. Multiple model adaptive control of a hydro turbine plant – performance of H_∞ , LQG and PI controllers. *Int. J. Advanced Mechatronic Systems*, 5(1): 47-58
5. Hamarasheed, C., Haris, S.M. and Nopiah, Z. M. 2014. Multiple model P+I with anti-windup control of a nonlinear hydro turbine. ICIC Express Letters, ICIC International c 2010 ISSN 1881-803X, pp. 1-ISII2014-000, Received July 2014; accepted July 2014
6. Kamaran K.F. Rashid, Idres I.A. Hamakhan, Chalang C.H. Mohammed.2022.” Tilt Angle Optimization and Investigation of the Behavior of a Flat Plate Solar Collector Using MATLAB for Kurdistan Climate Conditions-Iraq”. *International Journal of Heat and Technology*. [Online] Vol. 40, No. 2, April, 2022, pp. 583-591. Journal homepage: <http://iieta.org/journals/ijht>. <https://doi.org/10.18280/ijht.400227>
7. Kamaran Fatah Rashid, Idres Azzat Hamakhan, Chalang Hamarasheed Mohammed “Dynamic Simulation and Optimization of Flat Plate Solar Collector Parameters Using the MATLAB Program for Erbil-Iraq Climate Condition”. *Al-Rafidain Engineering Journal (AREJ)*, [Online] Vol.27, No.2, September 2022, pp.127-139. DOI: 10.33899/rengj.2022.133419.1167
8. Kareem Abdulghafour & Chalang Hamarasheed 2025. “Experimental and Numerical Analysis of Brake Disc Modal Behaviour”. *QALAAI ZANIST SCIENTIFIC JOURNALA Scientific Quarterly Refereed Journal Issued by Lebanese French University –Erbil, Kurdistan, Iraq*. [Online] Vol. (10), No(1), Spring2025 ISSN 2518-6566 (Online) -ISSN 2518-6558. Doi:10.25212/lfu.qzj.10.1.45

Computer Skills:

Microsoft Word, Microsoft Excel, Microsoft Power Point, AutoCAD, M_{ATLAB}

Office Skills:

Fax, Telex: Internet Conferencing