Ali Adams

Electrical and Software Engineer (1989-2003) IT Faculty, Physics and Math Teacher (2003-2018)

Citizenship British Iraqi

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Career

Sep 17 - Jan 18: A-level Physics/Math Teacher

Guiyang #1 High School, Guizhou, China.

CIE Physics A-level

CIE Mathematics A-level (P1,, M1)

Sep 15 - Sep 17: A-level Physics/Math Teacher

Yancheng Foreign Language School, Jiangsu, China.

CIE Physics A-level

CIE Mathematics A-level (P1, P3, M1, S1)

CIE Mathematics Grade 2 to 9

Mar 08 – Sep 15: **Numerical Researcher**

UAE, Iraq, USA, UK and China

Developing open-source software for numerical and similarity research into the ever-revealing Quran. qurancode.com

Aug 09 – Jun 10: **IGCSE Physics Teacher**

China-UK College, Shenzhen, China.

IGCSE Physics Complete textbook by Stephen Pople, Oxford Press.

Aug 06 – Oct 08: **Software Instructor**

Emirates Advanced Investments, Al Ain, UAE.

Leading a team of 3 developers to build a smart client framework to dynamically generate WPF client-side container with caching management for a medical information system that connects to a

C++ server using an XML/RPC middleware.

Aug 03 - Aug 06: IT Faculty

Higher Colleges of Technology, Abu Dhabi, UAE.

Teaching software development at a BSc and a HD levels with full course design and delivery, examinations, and project supervision.

Jan 03 – Aug 03: Software Developer

Scott Tod Developments, Crickhowell, Wales, UK.

Vending Machine Monitoring System using Delphi 5 and InterBase 6.

Oct 01 – Feb 02: **UI Design Consultant**

AWEK Integrated Systems, Gdańsk, Poland.

Automatic UI generation for using Delphi 5 and Oracle 7.4/8.

Jan 01 – Oct 01: Object Database Consultant

Versant Corporation, Basingstoke, UK.

ODBMS Proof-of-concept consultancy (and fine tuning, Java, C++).

Mar 00 - Jan 01: Senior Software Engineer

Racal Recorders Ltd, Southampton, UK.

C++/COM Telephony API for an Open Switch Interface.

Oct 96 - Mar 00: Lecturer / Demonstrator [Part-time]

Bournemouth University, UK.

MSc SE: Software Development (OOP, C++) lectures and labs. **BSc HCI**: Advanced Programming (C++) lectures and labs. **BSc Project Supervision**: Automatic UI Generation.

Oct 95 - Oct 96: Research Assistant

Bournemouth University, UK.

Practical evaluation of object database management systems using ObjectStore in both fine-grain and coarse granularity modes.

Education

Nov 96 - Mar 00: **Ph.D. Intelligent Data** [changed to part-time then abandoned]

Bournemouth University, UK. [British Telecom Sponsorship]

Fuzzy logic-based intelligent data migration to improve network responsiveness and minimize traffic. A simulation test-bed was developed in C++Builder using my own world-wide-used FuzzyLib library to evaluate a new self-organizing data management model.

Sep 93 - Sep 94: M.Sc. Software Engineering

Bournemouth University, UK. [Dorset TEC Sponsorship]

Practical investigation into object database technology using POET. Loveline for Windows was developed in Borland C++ & OWL.

Subjects:

Software Development, Methodologies and System Architecture.

Sep 90 - Apr 91: M.Sc. Electromagnetic Engineering

Cardiff University, UK. [Higher Education Ministry Scholarship]

Subjects:

Electromagnetic Fields and Magnetic Materials.

Sep 83 - Jun 88: **B.Sc. Electrical Engineering** 1st rank

University of Technology, Baghdad, Iraq.

High Voltage lightening measurements and storage using Z80-based microprocessor to aid the design of a power line protection system.

Subjects:

Applied Mathematics, System Control, Electromagnetism, Electronics, Power System Analysis, High Voltage and Physics.

Competitions

Top 3 in the 1999 European Space Agency's SUCCESS competition in fundamental physics for my proposal of a "*Time-measurement Dilation*" experiment to be carried out onboard the International Space Station (ISS).

Interests

Reality = Energy + Information

In 2001, I helped extend a new theory of light called *Helical Particle Waves* where light travels along helical paths and gave truer meanings to the concepts of *mass*, *electric field*, *magnetic moment*, *and light propagation*. In March 2014, a team from Japan, Ukraine and Korea proved the theory in practice. See http://heliwave.com/LightSpin.pdf

References

Richard Wu [Previous Manager]

Vice Principal

Yancheng Foreign Language School, Jiangsu, China.

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John Zhang [Previous Manager]

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Shuying Chen

[Research Sponsor]

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⊕esa

Directorate of Manned Spaceflight and Microgravity

SUCCESS

(Space Station Utilisation Contest Calling for European Students Initiatives)

TEAM-DAY

12th May 1999, ESTEC, Noordwijk, The Netherlands

was invited to attend the SUCCESS Team Day in recognition of his valuable proposal for an experiment on the International Space Station

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Head of the Microgravity and Space Station Utilisation Department Dr. Karl Knott

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