

Ali Adams

Electrical and Software Engineer (1989-2003)
IT, Physics and Maths Teacher (2003-Present)

Citizenship: British
Address: Cardiff, Wales, United Kingdom
Email: heliwave@yahoo.com
Website: www.heliwave.com
Wechat: [heliwave](#)
Phone: +86 157 15102741



Career

- Sep 15 – Present: **A-level Physics/Maths Teacher**
Yancheng Foreign Language School, Jiangsu, China.
CIE Physics AS/A-level
CIE Mathematics AS/A-level (P1, P3, M1, S1)
CIE Mathematics Grade 2 to 9 Korean Students
- 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 with emphasis on *why* and *how* rather than on *what* using *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 High Diploma levels. Duties include preparations of material, course 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 databases using **ObjectStore ODBMS** in *fine-grain and coarse granularity modes*.

Education

- Nov 96 – Mar 00: **Ph.D. Intelligent Data** [Incomplete]
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 out of 55 graduates*
University of Technology, Baghdad, Iraq.
High Voltage lightning 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/Light.pdf>

References

- Richard Wu** [Current Manager]
Vice Principal
Yancheng Foreign Language School, Jiangsu, China.
Email richardwu@whccd.edu
Phone +86 181-5139-3910
- John Zhang** [Previous Manager]
Head of International Department
Yancheng Foreign Language School, Jiangsu, China.
Email zbwy0909@163.com
Phone +86 136-3668-3637
- Shuying Chen** [Research Sponsor]
CEO of PiSector Inc. www.pisector.com
Address 6 Cobb Rd, New Brunswick, NJ 08901, USA
Email info@pisector.com
Phone +1 908-868-6205



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

Ali Adams

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

Ali Adams

Dr. Karl Knott

Head of the Microgravity and Space Station Utilisation Department

Ulf Merbold

Dr. Ulf Merbold

ESA Astronaut