

# Ali Adams

## **Electrical Engineer and Software Engineer IT Faculty, Physics & Mathematics Teacher**

Citizenship British Iraqi  
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## Career

- Jan 18 – Present: **Physics/Math Tutor**  
**Imam Al-Sadiq Institute, Baghdad, Iraq.**
- Sep 17 – Jan 18: **A-level Physics/Math Teacher**  
**Guiyang #1 High School, Guizhou, China.**  
CIE Physics A-level - Completed textbook in semester 1.  
CIE Maths A-level (P1, M1) - Completed textbooks in semester 1.
- Sep 15 – Sep 17: **A-level Physics/Math Teacher**  
**Yancheng Foreign Language School, Jiangsu, China.**  
CIE Physics A-level and Science grades 7, 8, 9.  
CIE Mathematics A-level (P1, P3, M1, S1) and grades 2 to 9.
- Mar 08 – Sep 15: **Numerical Researcher**  
**UAE, Iraq, USA, UK and China**  
R & D into the numerical structure of Quran using [QuranCode.com](http://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 BSc and 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** **1<sup>st</sup> rank**  
**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/LightSpin.pdf>

## References

- Richard Wu** [Manager]  
Vice Principal  
Yancheng Foreign Language School, Jiangsu, China.  
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- John Zhang** [Manager]  
Head of International Department  
Yancheng Foreign Language School, Jiangsu, China.  
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Phone +86 136-3668-3637
- Shuying Chen** [Sponsor]  
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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

*U. Knott*

**Dr. Karl Knott**

Head of the Microgravity and Space Station Utilisation Department

*Ulf Merbold*

**Dr. Ulf Merbold**

ESA Astronaut

Reality = Energy + Information

**Ali Adams**  
 MSc Software Engineer  
 BSc Electrical Engineer

Physics Teacher  
 Teach me **what** and I'll forget,  
 Teach me **how** and I'll remember,  
 Teach me **why** and I'll learn.

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helical particle waves  
 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107

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 1 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107

**Book = Key + Message**    القرآن = الفاتحة + الرسالة

114 parts = 1 + 113                      113 + 1 = 114 سورة  
 6236 lines = 7 + 6229                    6229 + 7 = 6236 آية

First 7 lines have 29 words              أول 7 آيات مكونة من 29 كلمة  
 Last 7 lines have 29 words              آخر 7 آيات مكونة من 29 كلمة  
 First 7 words have 29 letters            أول 7 كلمات مكونة من 29 حرف  
 Last 7 words have 29 letters            آخر 7 كلمات مكونة من 29 حرف  
 7<sup>th</sup> additive prime number is 29        سابع عدد أولي جمعي هو 29

$\pi \approx 3,141592653589793238462643383279502884197169399375105820974944592307816406286208998628034825342117067$   
 $e = 2,718281828459045235360287471352662497757247093699959574966967627724076630353547594571382178525166427$   
 $\phi \approx 1,618033988749894848204586834365638117720309179805762862135448622705260462818902449707207204189391137$

www.piephi.com    www.qurancode.com    www.heliwave.com



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