



Michael Dominick Andreas

The Belgian Club Apartments,
Hom 2, Vientiane, Laos 10000
T: +8562076974456
E: mikedandreas@protonmail.com

Professional Website: <http://mikedandreas.com>

Born: 16 April 1973

Marital status: married with teaching partner and no dependents
New Zealand and United States Citizen

EDUCATION

M.Ed. - Advanced Teaching - Secondary School Specialization <i>Endorsed by the International Baccalaureate Organization (IBO)</i> <i>University of the People, USA</i>	2019 - 2021
BA – Physics <i>University of Chicago, USA</i>	1996 - 2000
AS – Science <i>Seattle Central College, USA</i>	1994 - 1996

PROFESSIONAL EXPERIENCE

Vientiane Pattana School International (VPSI), Vientiane, Lao PDR Oct 2016 - current

Secondary [G7 - 12] Physics Department Head, A-Level/AS/IGCSE [G9-12] Physics and Math Instructor

- Implementing curriculum according to the Cambridge Physics syllabus and learner-centered international best practice
- Maximizing student Cambridge International exam performance
- Leading the other physics department staff grade 7-10
- Liaising with other science and math department heads
- Managing the budget, purchases, and maintenance of the physics department lab facilities and equipment
- Providing and participating in professional development and support for staff
- Ensuring high standards of monitoring and reporting
- Managing, invigilating, and procuring equipment for IGCSE, AS, and A-Level Physics practical examinations
- Performing risk assessments and ensuring student safety during field and laboratory experiences
- Hosting avant-garde cinema club
- Hosting student-led community science demonstrations
- Physics and mathematics classroom teacher responsibilities G9-G12
- Online teaching during COVID quarantines

While performing this role I participated in VPSI's successful Cambridge accreditation as an official international testing center. In addition, I was the first instructor to implement an A-Level physics program, which resulted in the first A- Level physics qualifications for students in Lao PDR.

It has been important for me to teach the course using international learner-centered best practice pedagogy while still ensuring top marks on the Cambridge International high-stakes exams in IGCSE (Grade 10) and AS/A-Level (Grade 12). I have documented my success in these endeavors through my action-based research culminating in a master's thesis [Pedagogical Effects on High-Stakes Summative Exams](#).

Vientiane International School (VIS), Vientiane, Lao PDR Oct 2014 - Jun 2016

ICT Manager - Helpdesk, Network Administration, and Network Architecture Consulting

- Troubleshooting day-to-day IT issues and managing staff
- Project management, and implementation of various network architecture projects including training and professional development
 - Seamless campus-wide Cisco Wi-Fi and switch upgrade, media server implementation, network optimization, iPad distribution/Cisco Meraki management, smartboard implementation, electronic student meal plan card system, Palo Alto firewall implementation, security camera upgrade, evaluation of vendors, processes, and documentation, and website modifications
- Formal capacity building with Lao staff, teachers, and administration. Assisted with change management and transitioning new IT manager/ team structure

- Expanded and upgraded the IT labs and troubleshoot software issues for Cooperative Orthotic and Prosthetic Enterprise (COPE) and Ban Saifongnue Primary school after procuring computers for a donation from the VIS community

See <https://www.mikedandreas.com/experience> for more specific details on my consulting projects and clients

Critchlow Ltd., Wellington New Zealand

Jan 2011 - Aug 2014

Emergency Management Services Leader

As Emergency Management Services Leader for Critchlow NZ, I reported directly to the CEO. Our EM team provided emergency management solution consulting, development, training, and support for a wide range of private and public clients throughout New Zealand, Australia, and Papua New Guinea.

Fujitsu New Zealand, Wellington New Zealand

Dec 2006 - Jan 2011

Senior Consultant

At Fujitsu, I helped forge new strategic alliances with partner organizations such as CA (Computer Associates) and consistently improved and created new business processes and offerings. I performed a variety of consultancy roles in architecture, development, systems integration, performance analysis, and troubleshooting with the CA Willy toolset for customers in Australia, New Zealand, and India. In addition, my job entailed web-hosting service delivery management and technical pre-sales and marketing.

Willow Creek Charter School/Excel Education Centers, Arizona, USA

Apr 2002 – Dec 2006

Computer Science Teacher/ E-Curriculum Designer/Network Administration and Consulting – AZWebTrends

My consulting business, AZWebTrends, involved several educational IT contracts. One that eventually transitioned into a computer science teaching position at Willow Creek Charter School, and another that entailed designing and implementing online curricular resources for Excel Education Centers. I also engaged with various other network administration and web development clients.

Anderson Consulting/Accenture, USA

Jul 2000 - Apr 2002

Consultant

I participated in a wide range of software development, data archival, and data analysis projects for banking and insurance clients.

Enrico Fermi Institute's Lab for Astrophysics and Space Research - USA

1997 - 2000

Research Assistant and Data Analyst

- During my tenure, I troubleshoot, processed, archived, monitored, and analyzed Neutron Monitor cosmic ray data, as well as cosmic ray data for Ulysses, IMP 8, and Pioneer's 10 and 11 space missions in a Macintosh and UNIX environment.
- My research resulted in an undergraduate thesis critically examining the different methods in which our cosmic ray data might suggest the boundary of our solar system known as the solar termination shock. Later it was confirmed I was not far off when the Voyager spacecraft passed through the boundary.

Seattle Central College, Washington, USA

1995 - 1996

Mathematics IT Lab Technician

I assisted students in the mathematics IT lab while configuring and maintain software.

Kids Centre, Washington, USA

1993 - 1995

Pre-school teacher

I was responsible for the supervision and coordination of activities involving children aged six weeks to five years.

LANGUAGES

English:	Oral and Written	<i>Fluent</i>
Spanish:	Oral and Written	<i>Basic Communicative</i>
French:	Oral and Written	<i>Basic Communicative</i>
Lao/Thai:	<i>Oral</i>	<i>Basic Communicative</i>

IT SKILLS

- I have worked as a professional IT consultant for most of my adult life, and within educational institutions. My IT skills are of expert level in nearly all areas such as software, networking and architecture, web development, database, data analyses.
- As an educator during COVID I have experience in teaching physics and mathematics online and facilitating my students to utilize all Microsoft Office 365 tools including Teams/OneNote for education, Zoom, Loom, Google Classroom and Google Workspace/Gsuite tools, Quizziz, PHET virtual STEM tools, Mathematica Virtual Tools, Prezi, Canva, Evernote, Meraki, Desmos, Khan Academy, PhysicsClassroom.com, Wix, and WordPress blogging software.
- I have designed several online assessment strategies and participated in Cambridge School Assessed Grades (SAG) for my students who were unable to participate in normal Cambridge examinations during COVID.
- For more details on my IT certifications and specific consulting projects, along with examples of student produced active learning projects please see my website <http://mikedandreas.com>.

REFEREES

Mr. Peter Crosthwaite
Head of Secondary School

Vientiane Pattana School International
70/105 unit 8, Ban Khounta,
Souphanouvong Ave, Sikhotabong district
Vientiane, Laos
T: +856 20 28 811 350
E: yps4peter@gmail.com

Mrs. Siew Leh Ko
Head of Secondary Mathematics

Vientiane Pattana School International
70/105 unit 8, Ban Khounta,
Souphanouvong Ave, Sikhotabong District
Vientiane, Laos
T: +856 20 98 464 925
E: yps4siew@gmail.com

Mr. Greg Smith
Head of School

Shekou International School
(Former head of Vientiane International School)
3180 Phonesavanh Road
Saphanthong Tai Village
Sisattanak District
Vientiane Lao PDR
E: gregory-r-smith@hotmail.com

Mr. Jos Kunnen
Managing Director / CEO

Times-7 Research Limited
(Former CEO Critchlow Ltd.)
29 Railway Avenue,
Alicetown, Lower Hutt 5010, New Zealand
T: +6421683914
E: jos.kunnen@times-7.com

Additional letters of recommendation available upon request