

# EDUCATIONAL SECTOR EXPERTISE

THOUGHT LEADERSHIP FOR THE BUILT ENVIRONMENT



# SUPPORTING HEALTHY LEARNING

The educational projects we help develop are more than simply functional, efficient spaces. At Alpin, we strive to support healthy learning by building schools, colleges and universities that foster creativity and excellence.

We achieve all of this and more by ensuring the flow of fresh, healthy air through the control of any Volatile Organic Compounds (VOC) materials, healthy ventilation, acoustics and mould prevention. We also take into careful consideration the use of natural lighting, construction materials and sustainable furniture. The result is a place where students statistically perform better; a healthy, environmentally sound space that inspires productivity in both pupils and their teachers.

## THE ALPIN APPROACH

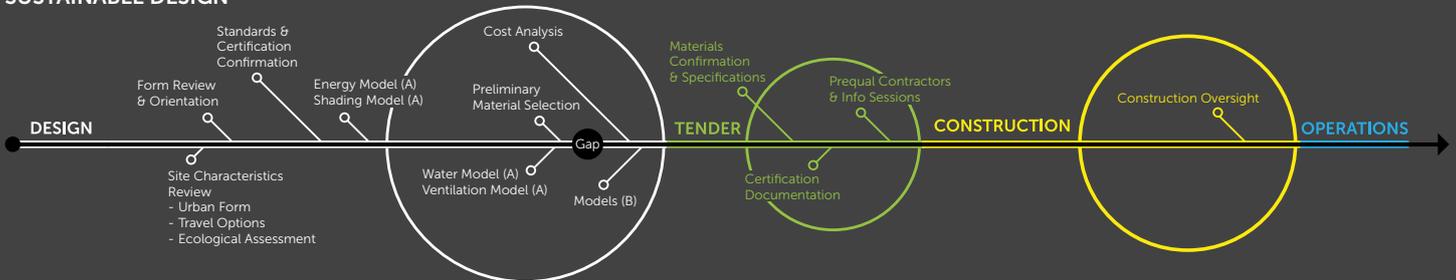
When it comes to building world-class, educational projects, we understand our client's concern for timely delivery – after all, such projects need to operate to strict opening deadlines. Thanks to our efficiency and proven work-flow process, Alpin has become a leader for educational development in the region. Our virtual BIM services allow us to pre-coordinate everything prior to construction, saving our clients precious time and resources on site, thereby ensuring that the project adheres to crucial timelines.

Our commitment to creating healthy learning environments is also evident in our participation in the Greens Schools

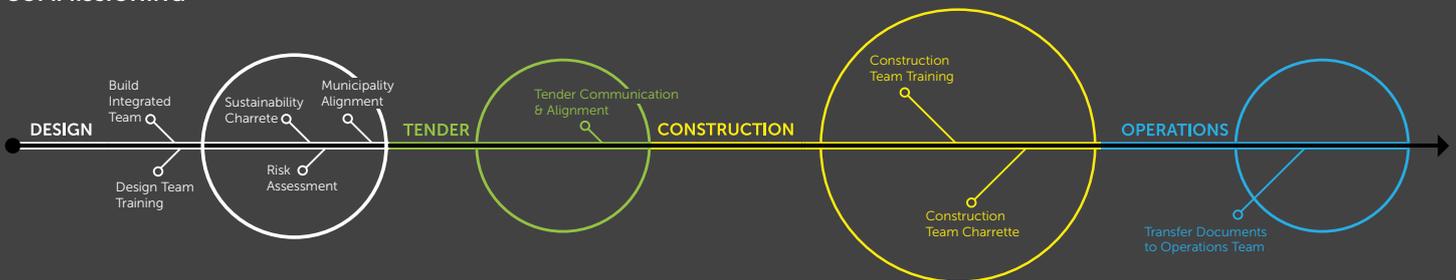
Initiative. This was set up in 2004 by parent-environmentalists on a mission to improve the health and ecological sustainability of schools in the US. We have helped pioneer this initiative in the region, by creating educational spaces that eliminate toxins, use resources sustainably and even provide sustainable curriculums. By definition, the goal of a green school is to ensure healthy kids and high performance, by measuring and reducing the establishment's ecological footprint, and ultimately providing a better learning environment for students and staff.

# THOUGHT LEADERSHIP FOR THE BUILT ENVIRONMENT

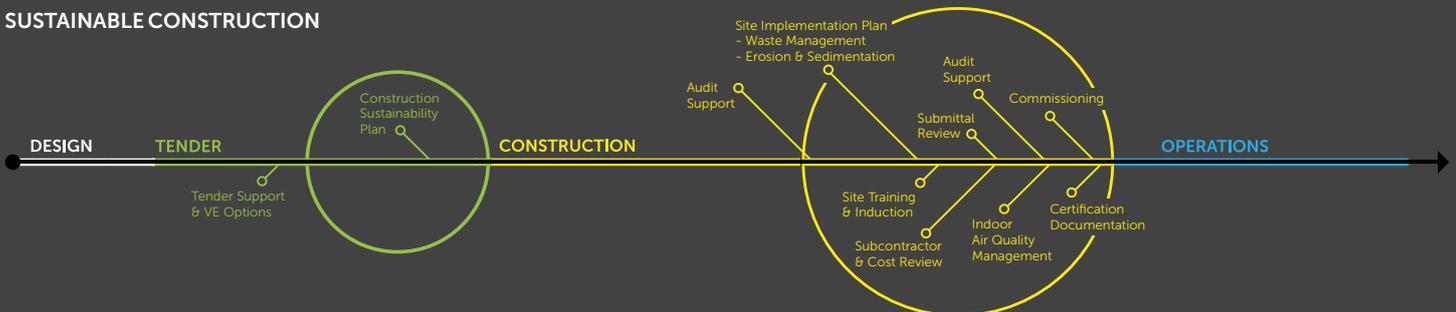
## SUSTAINABLE DESIGN



## COMMISSIONING



## SUSTAINABLE CONSTRUCTION



# EDUCATION PROJECT EXPERTISE

## MORE THAN JUST A COMMITMENT TO OUTSTANDING DEVELOPMENT

At Alpin, we pride ourselves in delivering more than just high-level developments. Our commitment to our clients goes above and beyond the completion of a project. Our annual participation in Green Apple Day of Service is just one testament to this. This special initiative gives parents, teachers, pupils and companies like Alpin the chance to take part in a range of events that help transform schools into healthy, safe and productive learning environments. Since 2012, more than 750,000 volunteers in 73 countries have been involved.

*“Alpin makes the development of high performance schools as easy as **ABC**”*

## SCHOOLS / EDUCATIONAL PROJECT SERVICES:

### Green Building Certification

We look at everything from your water and energy usage to the impact your building will have on the health of its students and staff, to create healthier, more productive learning environments. We ensure your school stands up to stringent green building certifications and have years of experience in working with globally renowned standards. Some of these include LEED (USA-International), BREEAM (UK-International), to Estidama (Abu Dhabi), QSAS (Qatar), and DGNB (Germany).

### CxA Commissioning

We understand that educational projects often run to a very tight schedule. Our commissioning service ensures that your building will be ready when you need it to be. We also independently oversee the MEP construction works to ensure that your project is free from harmful irritants such as grinding dust, volatile organic compounds (VOCs) and mould. Think of our commissioning services as your vital insight - an experienced, independent body that works alongside your own team to ensure outstanding results.

### BIM and Design Services

We streamline fabrication with BIM allowing for more logical construction, saving you money and time, and above.

### Construction Advisory Services

We streamline fabrication with BIM allowing for more logical construction, saving you money and time, and above.

### Operational Efficiency

Our operational efficiency service has one important goal in mind – to make sure your educational project never underperforms. From looking at your development’s water consumption to carrying out extensive energy audits, we will help you create a better functioning, more productive and comfortable learning environment all round. Our retro-commissioning service has also been proven to save 10-20% off your building’s annual energy costs.

### University Research partnerships

We are committed to ongoing research into every aspect of sustainable and

environmental design. Our experts have years of experience in working with industrial and academic partners on exciting, joint research projects that support a more sustainable future. We have proudly worked on a range of pioneering projects with academic institutions and research organizations around the world. As well as offering research and development work support, we can help arrange potential commercial sponsorship of postgraduate and postdoctoral research.

### Energy Innovation

We believe it is important to help pave the way for a cleaner, more sustainable future for generations to come. Our energy innovation solutions are not only kinder to the environment, they will help you save money by reducing your monthly running costs. From energy modeling and analysis, to measurement and verification to determine your project’s true energy savings, we will help you create a more sustainable, healthier environment.

### Acoustics

Noise can have a significant impact on the health and productivity of your building’s inhabitants. We work to control and reduce unwanted sound through the process of acoustical engineering to create a better environment for pupils and teachers. Our on-site testing equipment allows us to help you make accurate acoustic measurements and quickly identify solutions. The acoustical study we conduct is also an important requirement for schools undergoing LEED certification.

### Specialist Training & Professional Development

So far more than 3,000 people and counting from over 100 organizations have taken part in our training programmes, covering everything to do with sustainability and BIM to commissioning and the built environment. Our educational team are all industry professionals with years of expertise in providing the best training methods available.



# EDUCATION PROJECTS THAT DELIVER RESULTS

Improved test scores when compared to non-LEED projects.

**15-30%**

Energy savings through commissioning + retro-commissioning

**10X**

Increase in financial benefits

**30%**

Increase in fresh air

**10-15%**

Faster construction through BIM

# EDUCATION CASE STUDIES



In any significant construction project, there are many elements that must combine to ensure a development's success; from meeting intended operating procedures, to ensuring the entire journey is meticulously documented so that facilities management can take over after construction. Alpin confidently takes control of your facility from design and construction, to completion and beyond.

## TECHNICAL EXPERTISE

We work with superior caliber team members who have the competency, skills and experience to perform inspections, commissioning and startup at the highest of levels. Combine this with our patented technology/work flow process and you can rest assured that your development will be ready for operations without compromise.

## PROJECT MANAGEMENT

We provide the best in class team to assist in or fully define and execute independent advisory audits, commissioning, start-up and completions. We approach projects by combining the skills of our highly experienced personnel, with our proven and highly productive way of working. We also employ standard project management tools such as BIM asset tagging software, Primavera and Aconex.

## THE RESULT

**Better project outcomes, delivered on-time at lower cost.**

# EDUCATION CASE STUDIES



## ABU DHABI FUTURE SCHOOLS PROGRAM

### ABU DHABI & AL AIN, UNITED ARAB EMIRATES

TWO RATINGS OF ESTIDAMA DEVELOPMENT (THREE PEARLS)  
2012–2015

Scheduled for completion in Q3 2013, this package consists of three high schools in Al Ain. Each high school shall have capacity for over 1,000 students and both schools were designed to achieve Estidama Pearl ratings of Three Pearls.

**Type of Project:** Education

**Client:** Musanada/ADEC

**Engineer:** KEO

**Project Manager:** Hill International

**Contractors:** Wates & Al Fara'a JV, System Construct

Photo courtesy of Musanada/ADEC

## REPTON SCHOOL

### ABU DHABI, UAE

ESTIDAMA PEARL  
2012–2014

The school is spread over two campuses, the first of which is a 7,000 square metre site for 520 children from nursery to year two.

Facilities including two multi-purpose halls and a swimming pool will see the delivery of British education synonymous with tradition, expertise and experience.

**Type of Project:** Education

**Client:** Evolve Knowledge Investments

**Engineer:** Dewan

**Architect:** Dewan

**Contractor:** System Construct

Photo courtesy of Surouh



## CRANLEIGH SCHOOL

### ABU DHABI, UNITED ARAB EMIRATES

TWO PEARLS  
2013–2014

Built over seven hectares of land, Cranleigh Abu Dhabi will become the largest school campus in Abu Dhabi with open green spaces, extensive landscaping and an ambient environment. In addition to the broad academic curriculum which emphasises on the individual, a wealth of opportunities will allow students to explore their full range of talents in fine arts, performing arts, music, sports and cultural activities.

**Type of Project:** Education

**Client:** Tourism Development & Investment Company (TDIC)

**Architect:** Godwin Austen

**Contractor:** Johnson Architects / Tafseer Contracting

Photo courtesy of TDIC



## OUR TEAM

### Internationally Experienced

Our consultants have worked in nearly every region of the world. They represent five continents and between them speak eleven languages. Having lived and worked in different countries, they fundamentally understand the dynamics within and between markets. All of our consultants have hands-on emerging markets experience.

## EDUCATION TEAM LEADERS

### Jourdan Younis

Managing Director (American)

Jourdan continues to build a robust consulting firm known for its commitment to quality and professionalism. Jourdan holds an MBA from London Business School and a BSc in Construction Management from California Polytechnic. He takes great pride in making a positive impact in the cleantech industry, exceeding client expectations and making Alpin a truly exceptional organization to be part of.

### Rami Ghanem

Technical Operations Manager

Rami is a Mechanical Engineer who holds a Master's Degree in Building Services Engineering from Heriot Watt university Edinburgh UK with 11 years In Design, Supervision and Commissioning of Building services. He is deeply specialized in Commissioning, Energy Value Analysis, Renewable Energy Studies (Solar Cooling and Solar Heating) and has strong experience in project management and in electromechanical systems.

### Nareg Oughourlian

Strategic Consultant

Nareg is a Construction Professional with a background in Mechanical Engineering who has advised developers, consultants, and contractors on the integration of sustainability in the built environment. With extensive experience in Sustainability and Commissioning for the built environment, he is leading our business unit and to leverage our value added services to partners and clients while ensuring that Alpin's core values are reflected and manifested.

## CONTACT INFORMATION

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