



# KEITH FRANKLIN

## Sustainability Consultant

*Keith has a solid foundation in modelling following a masters degree in mechanical engineering, with a final year focus in computational fluid dynamics. In 2003 Keith joined Stephenson and Turner as a design engineer and introduced IES to the company (the first in New Zealand) to give them advanced modern simulation software.*

*Following design experience in New Zealand working on a wide variety of projects, he built up to heading the mechanical design for a flagship gym. After 3 years he moved to Dubai to model the 65-storey Buildings by Daman for Burohappold before taking a break to get involved with conservation.*

*Keith has spent 12 years working in conservation with primates and other animals. From helping run a multi park sanctuary with volunteers to setting up a new park with only river access in Bolivia, through to developing release methods for baboons in South Africa. He kept a pace with the building services industry and specifically modelling through a design engineer role at Ramboll in the last five years and outsource work with HDSgreentech.*

*Sustainable design and environmental impact are core values which enable Keith to deliver benefits to clients when evaluating renewable strategies and Part L. It also helps to look for innovative natural ventilation strategies to assist in avoiding overheating.*

*Keith has worked on a wide variety of buildings such as Farnborough exhibition and conference centre, schools, factories, nursing homes, a skyscraper in Dubai, prisons in New Zealand as well as offices and small residential buildings.*

*He has worked alongside clients, architects, contractors and consultants to deliver successful projects in a number of roles, giving him a holistic view and enabling him to understand the different aspects of the design process. He is happy to go the extra mile to meet client expectations and deliver results on time and to a high level.*



### CONTACT INFORMATION

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## CAREER

2019 - Current

**Sustainability Consultant – HDSgreentech, Southampton**

Working to deliver high level modelling consultancy support for local building services consultants and contractors

2019 – 2018

**General operations assistant – Centre for Animal Rehabilitation and Education, South Africa**

Assisting with all sanctuary supervision, including veterinary, hygiene, construction, behavioral studies. Developed release protocol and site reviews.

2017 – 2016

**Director of Operations – ONCA, Bolivia**

Construction and subsequent management of primate area, design of release program and establishment of national rules alongside government, and general supervision of center.

2018 – 2017 & 2016 - 2014

**Mechanical Design Engineer – Ramboll, Southampton**

IES modelling and mechanical system design and 3D Revit for a range of projects. Project management for small educational projects.

2014 - 2007

**Park and Primate Co-ordinator – CIWY, Bolivia**

Park coordinator across three parks, responsible for over 450 mammals. Space planning, construction, rehabilitation, release and crisis management.

2007 – 2006

**Design Engineer – BuroHappold, Dubai**

IES modelling for steady state loads and dynamic models for large buildings.

2006 – 2003

**Design Engineer – Stephenson & Turner, New Zealand**

Introduced IES software to company, mechanical design and drafting.

2001 – 2000

**Undergraduate Quality Engineer – Perkins Engines CO. Ltd**

## EDUCATION

1998-2003

**Master of Engineering 1<sup>st</sup> (Honors) – Mechanical Engineering**

Loughborough University, Loughborough, United Kingdom



## PROJECTS

### **2019 Cemex House**

A redevelopment of a 8,761m<sup>2</sup> mixed use listed building complex consisting of four 1900's buildings and a creatively designed 1990's building from office space to a high level residential and leisure facility, the development included a new 2,730m<sup>2</sup> two storey residential building. Undertook a TM52 overheating study, including a TM59 residential study and calculated building heating and cooling loads.

### **2019 Livingstone Academy**

A redevelopment of a 2,260m<sup>2</sup> 1900's coroners court and a 2,735m<sup>2</sup> 1970's office block into a new primary education academy constructed along with a 6,649m<sup>2</sup> five storey new build secondary academy. Undertook TM52 study to develop a thermal comfort strategy to work in a challenging building, also completed a Part L2A and load assessment on both buildings.

### **2019 Bohunt School**

New school academy with a main 9,950m<sup>2</sup> education block for primary, secondary and sixth form, and associated sports and nursery block. HDS undertook Part L2A compliance and an overheating TM52 study.

### **2019 Reid Steel**

New 10,270m<sup>2</sup> steel fabrication industrial building. HDS were appointed to complete a steady state load calculation and a dynamic thermal model for GSHP calculations as the whole factory operated with comfort cooling, alongside this there was a Part L2A compliance study.

### **2019 The Old Nursery**

TM52 study on a new large three-storey domestic residential building to advise on design on passive measures to reduce overheating while maintaining the large panoramic views offered by the buildings location.

### **2017 Deer Park School**

IES modelling for Part L2A and overheating, design of mechanical systems up to RIBA stage 2 for new 10,000m<sup>2</sup> superblock school.

### **2017 Hilerod Hospital**

Revit modelling and design assistance for drainage system for 128,000m<sup>2</sup> new hospital in Denmark. The role included coordination with other services and supervision of Indian Revit modelling team.

### **2016 Farnborough International Exhibition & Conference Centre**

Part L modelling for 12,500m<sup>2</sup> exhibition centre, part of the design team to build Revit model and responsible for piped services design.

### **2006 Buildings by Daman**

IES steady state load calculations and dynamic model for 65 storey tower block, consisting of 84,000m<sup>2</sup> residential, 56,000m<sup>2</sup> office and 300 room sky hotel.

### **2006 Les Mills Gym**

IES model and mechanical system design for new flagship gym in Wellington

### **2005 Spring Hill Corrections Facility Waikato**

Mechanical system design of new corrections facility