

## Symanski House:

- Bespoke residential house
- Timber roof structure
- Split level site

GCA worked closely with the architectural team to develop a bespoke timber frame.

Glazed panels with hidden stainless-steel plates were used to preserve the site lines relating to the glazed elevations. GCA also resolved a number of drainage challenges as part of the project.



## Eco House, Milton Keynes:

- Complex structural geometry
- Podium deck
- Elevated structure

This project required the development of a bespoke structural podium deck to support a clear Architectural vision which elevated the first floor to provide views across the surrounding landscape whilst reducing the impact of the ground floor massing on the surrounding countryside.



## Contemporary Extension, Stafford:

- Large openings for sliding doors
- Open vaulted roof
- Extension

GCA were engaged by the architect to design the structural arrangements for this contemporary extension.

GCA developed bespoke designs to overcome a wide range of technical challenges, and supported the project from conceptual design through to final fit-out.





## Spinney Close, Derby

- Architect's private house
- Glulam and glazed frame
- Bespoke design

GCA designed a single storey extension to the rear of an existing property.

The primary structure for the extension was fabricated from glulam (glue laminated timber) and bolted together on site.

We worked closely with the Architect to ensure that the exposed structure met their aesthetic requirements.

Significant efforts were made to co-ordinate the architecture and structural geometry to create a strong, substantial glulam frame which enhanced the space and layout of the living space.

A clean soffit was created at the interface with the existing structure to avoid a down-stand beam, letting in additional light to the inner parts of the house.

GCA managed the structural design of the superstructure as well as the foundations. The latter were carefully designed based on engineering judgement and experience to minimise the cost, which would have exceeded the project budget if designed traditionally for the presence of nearby trees.



## Treehouses - Worcester

GCA worked closely with an artist and designer to create luxury glamping space on an existing site in Worcester.

GCA led the design of the timber-frame package, creating bespoke connections and working with the carpenter employed by the client to minimize project costs whilst meeting the clear design aspirations for the project.

The resulting structures created natural space within the existing landscape without significantly impacting the existing site.

