



*Hi, I'm Daniel Shefford...*



Year 2 University project: design & build a creche in South Africa



School expedition to the Indian Himalayas: constructing a rammed earth Greenhouse for a remote village

*...and I'm passionate about building*

*I graduated from the University of Nottingham in 2023 with a first in Architecture (Part 2).*



#### EDUCATION

- Sep 2021 - Jul 2023 UNIVERSITY OF NOTTINGHAM  
Architecture (MArch) (1st)  
(ARB/RIBA Part II).
- Sep 2016 - Jul 2020 UNIVERSITY OF NOTTINGHAM  
Architecture and Environmental Design (MEng) (2:1) (ARB/RIBA Part I, CIBSE).
- Sep 2014 - Jun 2016 HILLS ROAD SIXTH FORM COLLEGE, CAMBRIDGE  
A Level: Art A\*, Maths A, Chemistry A, Physics B, EPQ A\*.
- Sep 2009 - Jun 2014 NEWPORT FREE GRAMMAR SCHOOL, ESSEX  
GCSE: 13 A\* to C (10 A\* and A).

#### ADDITIONAL QUALIFICATIONS

Full, clean driving licence (with access to a car)  
Presented my part II thesis on the role of architecture in connecting with the Divine at the Oxford Symposium on Religious Studies 2023  
Winners of the 2017 Wirksworth Festival Pavilion Competition  
Gold, Silver, Bronze Duke of Edinburgh Awards

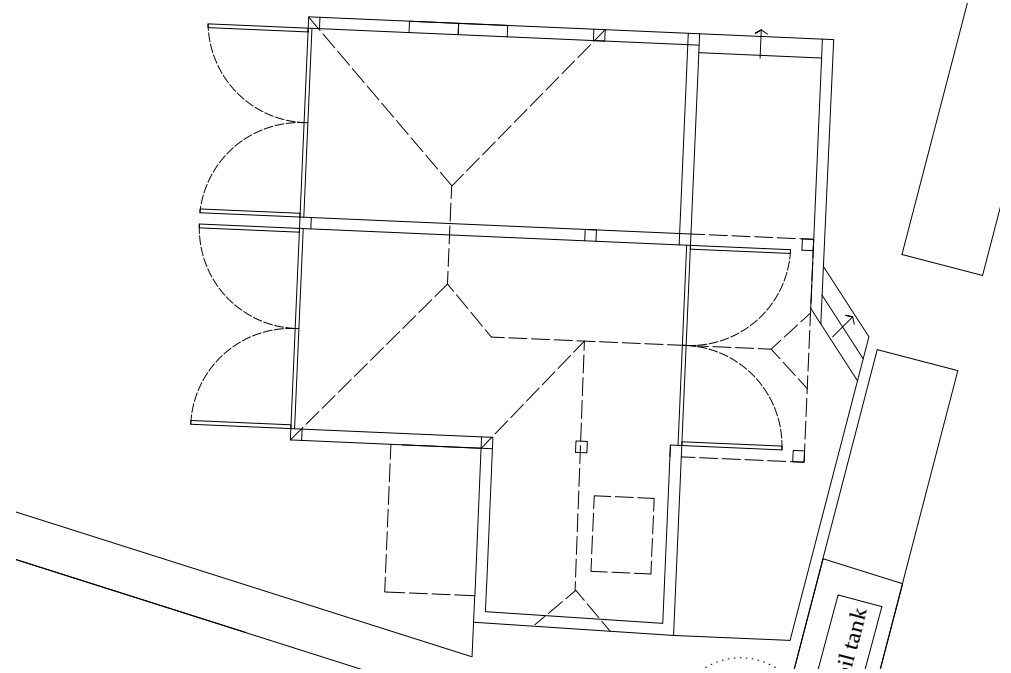
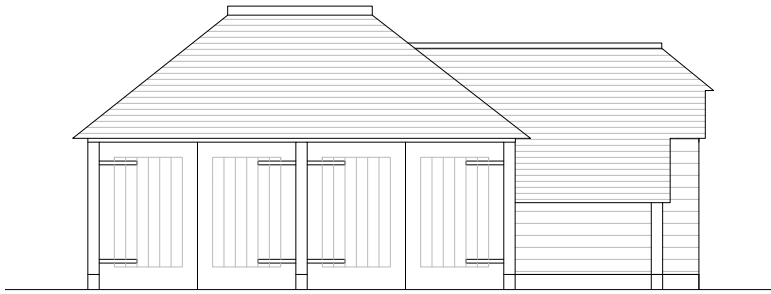
*I'd like to share some of the work I completed during my master's course.*



*But first I'd like to show you what I have done for real clients*

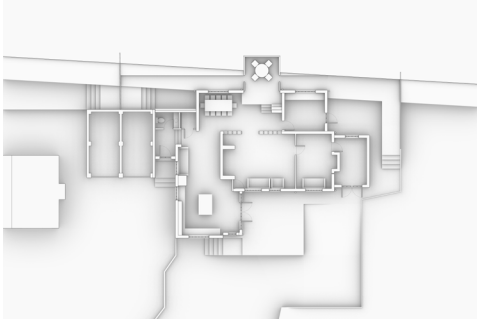


I obtained planning permission and listed building consent for the extension of and alteration to an existing garage to convert it into a granny annexe. I helped the owner with the framing on their self-build project. Revit was used to develop this scheme.



I obtained planning permission and listed building consent for the enclosure of and extension to this cartlodge garage to be built by the owner. AutoCAD was used for this project.





I obtained planning permission and listed building consent for the extension to a family home in a North Essex village. Rhino was used for this project.



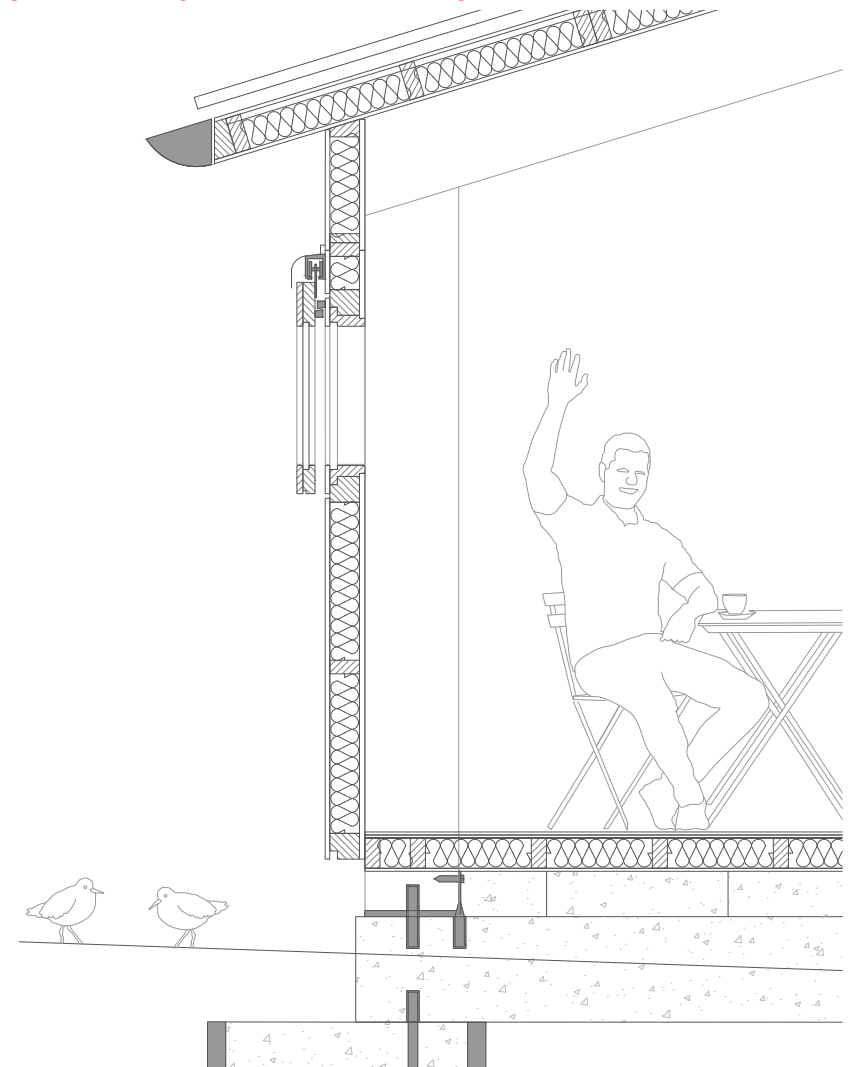
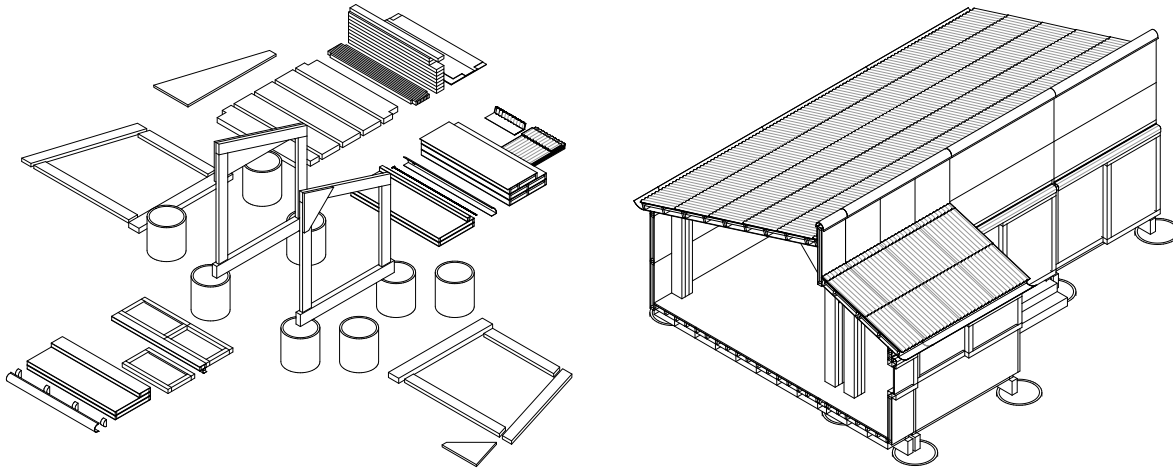
*I'm interested in old buildings and would love to be involved in heritage work*



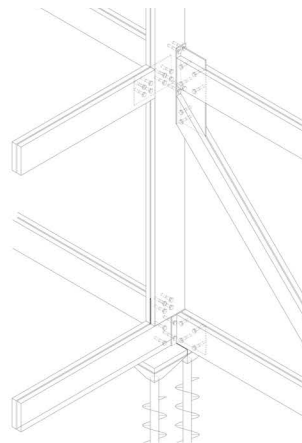
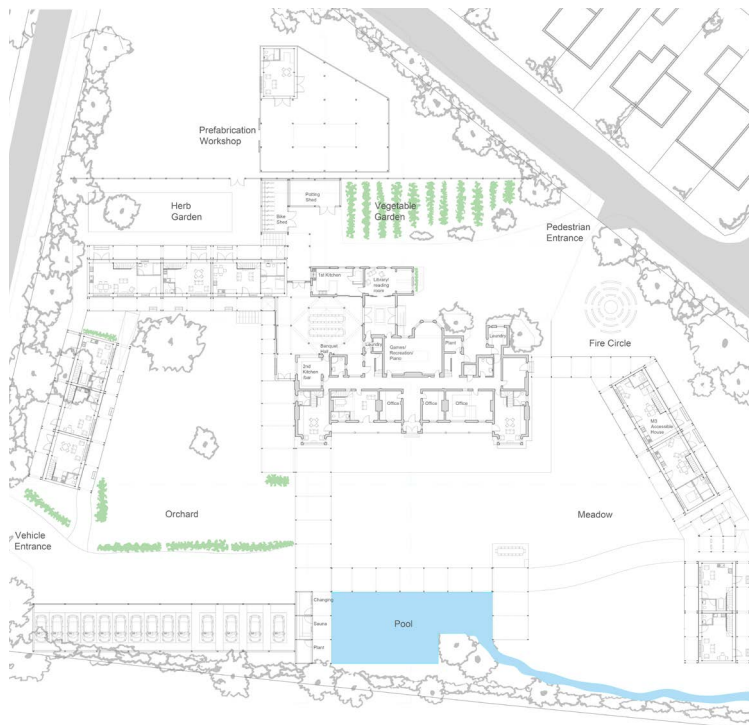
My final project for my part II course involved adapting an existing church building with a declining congregation to develop a community hub for a deprived area of Nottingham, breaking down physical and cultural barriers through an architecture of invitation. This project primarily used Rhino, AutoCAD and Photoshop, with extensive hand drawing and modelmaking to develop ideas.



*And I am equally fascinated by modern styles of building design and systems of living*



My year 5 autumn project involved investigating Jørn Utzon's "Espansiva" self-build housing system first through Sketchup and AutoCAD drawing, followed by re-envisioning a scheme using his "kit of parts" through a 1:10 model.



### FRAME ISOMETRIC SHOWING PLATE FIXINGS

Composite timber-aluminium side hung triple glazed window casement

25mm x 50mm or 25mm x 110mm Hardwood or Accoya cladding, 10mm shadowgap spacing  
25mm x 36mm treated softwood counter-battens 300mm c/c  
25mm x 50mm treated softwood battens 600mm c/c  
Tyvek Firecurb breather membrane  
300mm sheep's wool insulation  
324mm x 600mm x 1800mm plywood box cassettes (12mm ply)  
12mm woodwool board with lime render and clay paint finish  
50mm x 50mm stud cover plates (for services void)  
100mm wide tongue & Groove timber paneling wainscoting with chair rail cap in line with window sill

50mm x 50mm handrail and 50mm x 25mm rails on 125mm centres mounted on stainless steel brackets  
110mm wide timber deck, 10mm spacing  
treated softwood battens & counterbattens  
Single ply drainage membrane, fall to wall/drain  
Treated Softwood fillets  
15mm ply deck on dropped joists  
50mm x 300mm and 50mm x 235mm treated softwood joists, flush to undersides  
Meshed drain to gutter and downpipe (horizontal to have 1:50 slope)

Aluminium frame lining exterior of doors and windows, 15mm timber frame and linings internally  
Composite timber-aluminium stable door with triple glazed top leaf  
Socket plates on wainscoting at least 450mm above finished floor level

30mm hardwood floor  
15mm low profile underfloor heating tile & pipework  
12mm ply  
40mm cork insulation  
24mm chipboard deck  
300mm sheep's wool insulation  
50mm x 235mm floor joist  
2 x 50mm x 300mm floor beam  
Radon-resistant damp-proof membrane  
ShirePile screw pile with insulated base cap  
Ground cleared and replaced with top layer of gravel

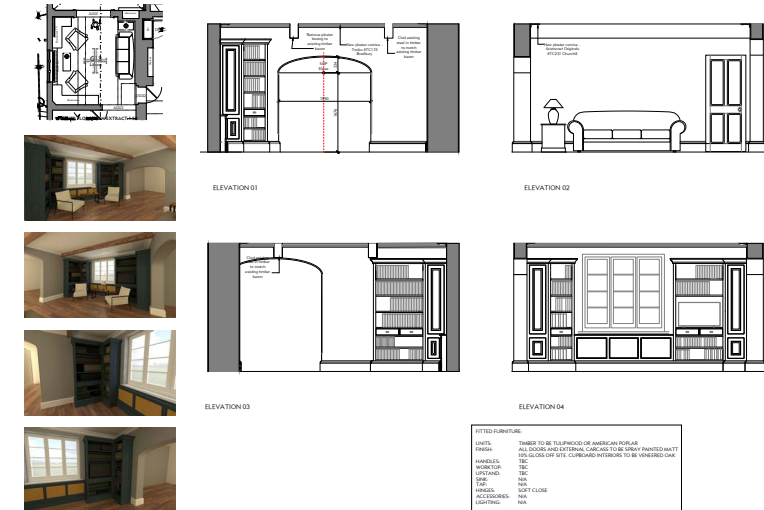
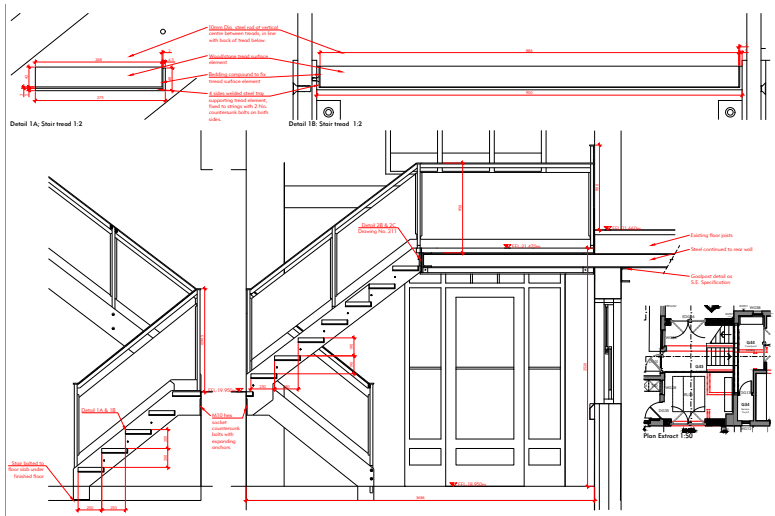
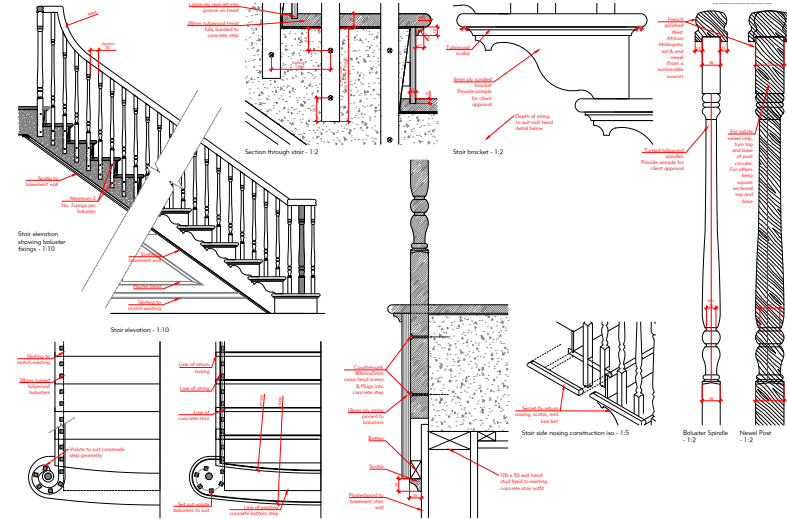
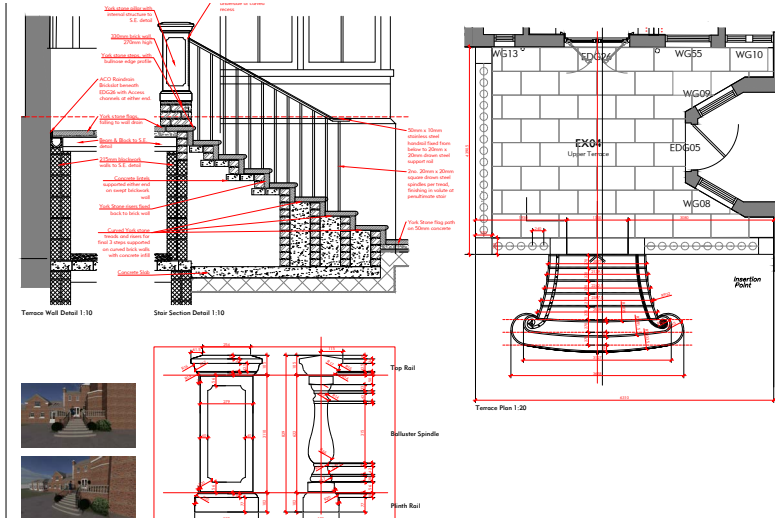
25mm x 200mm Hardwood Fascia  
85mm x 95mm galvanised steel gutterfilled with gravel  
Meshed drain to secondary gutter and downpipe  
1200mm x 600mm operable timber-aluminium triple glazed rooflight, fall to eaves  
vented upstand to rooflight, at least 150mm between top of green roof and frame  
300mm gravel border firestop to roof edge, around rooflights and between houses  
70mm extensive green roof (sedum) including substrate, drainage, and seeding  
Single ply roofing membrane  
20mm ply deck  
treated softwood firing, falls to eaves in line with roof joists  
50 x 100 treated softwood roof joist 600mm c/c  
Tyvek Firecurb breather membrane  
300mm sheep's wool insulation  
324mm x 600mm x 1800mm plywood box cassettes (12mm ply)  
50mm x 235mm treated softwood ceiling joists 600mm c/c  
12mm woodwool board with clay paint finish, held up by 15mm x 15mm beading  
2 x 50mm x 300mm roof beam  
90mm diameter recessed downlights centred between joists and on 1200mm c/c  
130mm diameter ventilation ductwork for MVR (input/exhaust vents at 1200mm c/c, input to bedrooms/living, exhaust to kitchen/bathroom)



My year 5 spring project took inspiration from the self-build ideas of Jørn Utzon (espaniva), Walter Segal (Segal Method), and Studio Bark (U-Build) to develop a cohousing scheme in a rural setting which could be constructed (and deconstructed) by self-builders with low carbon impact and minimal impact to the site.



*I gained practice experience during my part 1 placement with Alex McIntyre Architects*



My design work at Alex McIntyre Architects was predominantly done in AutoCAD and Sketchup complimented with V-Ray. I also took minutes during site meetings and liaised with a number of contractors in designing and working up drawings for the fabrication of a variety of staircases and fitted furniture.

*In my free time I enjoy making things*





*And every day I do a watercolour painting*

