

Theo Craft

engineering designer, architect

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- EXPERIENCE:**
- 2008 - present: engineering designer for Axon Automotive Ltd.
Developing the spider structure for the "80_80" eco-car. (in particular: carbon fibre elements with various compositions due to different structural roles and aspect requirements i.e. lower chassis, crash beams, "A", "B", "C" pillars - exposed Cf. parts).
Specific design tasks for the prototype such as: establishing the windscreen limitation, calculating the "A" pillar obstruction angles (the element had to be reconfigured).
Dividing the car structure in subassemblies (with regard to the execution strategy), stress analysis for parts of the Cf. chassis followed by material usage and production cost estimation.
Research work for improving the company's patented carbon fibre technology (AxonTex).
- 2007 - 2008: managing director of my architectural practice, doing construction authorization projects, interior design projects and technical specification projects, mainly for housing programmes (portfolio available on request).
- 2006 - 2007: worked as an associate with S.C. Architectgroup S.R.L., developing concepts for different architectural programmes (mainly commercial buildings), establishing execution details for metallic structures, armed concrete, brick / armed concrete, also wooden structures.
- 2005 - 2006: worked for S.C. Assad S.R.L., doing technical projects, concept validation projects, interior design works, and preparing documentation for construction authorization projects.
- SKILLS:**
- Solid Works for 2D and 3D projecting, Cosmos Works simulation & analysis
AutoCAD + 3DStudioMax for detailed representations and special renderings
- extensive use of specific tools such as:
Laser Cutter, Waterjet Cutter, CNC and RP machine. Highly experienced with the lathe and all the common equipment in a mechanical engineering / modelling workshop.
- I have experience working with composite materials (resin infused carbon fibre), designing and prototyping car chassis.
I am used to developing an element or subassembly from concept stage, cad-modelling, moulding preparation, to the vacuum infusion of the actual composite part.
- I always draw by hand and study with scale models for each of my projects.
- EDUCATION:**
- 2008 - present: MSc -Design & Engineering - "Middlesex University", London accredited by the Institution of Engineering Designers (IED), of which I am a member accredited by the EC(UK) for IEng registration.
- July 2007: Bsc (2.1 honours degree) in architecture
2001 - 2007: "Ion Mincu University of Architecture and Urban Planning", Bucharest
- AWARDS:**
- 2006 - IVth place - "Mountain Hotel as a Passive House" - European architectural contest
- 2006 - approved concept - "Office Tower - Bucharest Militari" - architectural contest
- 2005 - won University Contest - "Social Space" (urban temporary lightweight structures)
- INTERESTS:**
- Even though I started off as an architect, I have always been attracted towards the automotive industry. My current aim is to develop a truly energy efficient car. Achieving an environmentally friendly vehicle that is still interesting in the "young" consumer's perception, and at the same time complying with the existing regulations is proving quite a challenge. Using the adequate materials, new technology and innovative design concepts, makes it possible.
- REFERENCES:**
- | | | |
|--|--|---|
| Dr. Steven Cousins | Dr. David Payne | Dr. Stephen Prior |
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