

Negotiated Design Final Project

Provisional Brief

My brief is to design a 'UK-legal' folding pocketknife and produce a complete technical package so that it could theoretically be manufactured. This technical package must include 3D models, toleranced technical drawings and material specifications, all produced to a high standard so that a manufacturer could interpret the data and produce the product. I would like to produce this technical package in Solidworks CAD software to prepare for my entry into the design/engineering industry after university, where it is used by a large number of companies and is considered industry-standard by some. If Solidworks is not available, then the models will be produced using Autodesk Fusion 360 and the drawings produced using Autodesk AutoCAD. The final outcome should be organised in a Google Drive folder to act as a client handover document.

Required Specifications:

- Stainless-Steel blade to resist corrosion
- 58 or greater HRC for high edge retention
- One-handed opening capability
- Non-locking blade design
- Cutting edge shorter than 3"/76.2mm
- Lightweight, ideally under 100g
- Pocket clip for secure and discreet pocket carry
- Non-threatening design preferable