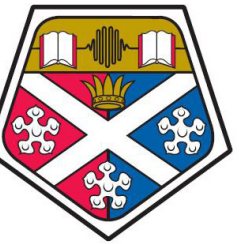
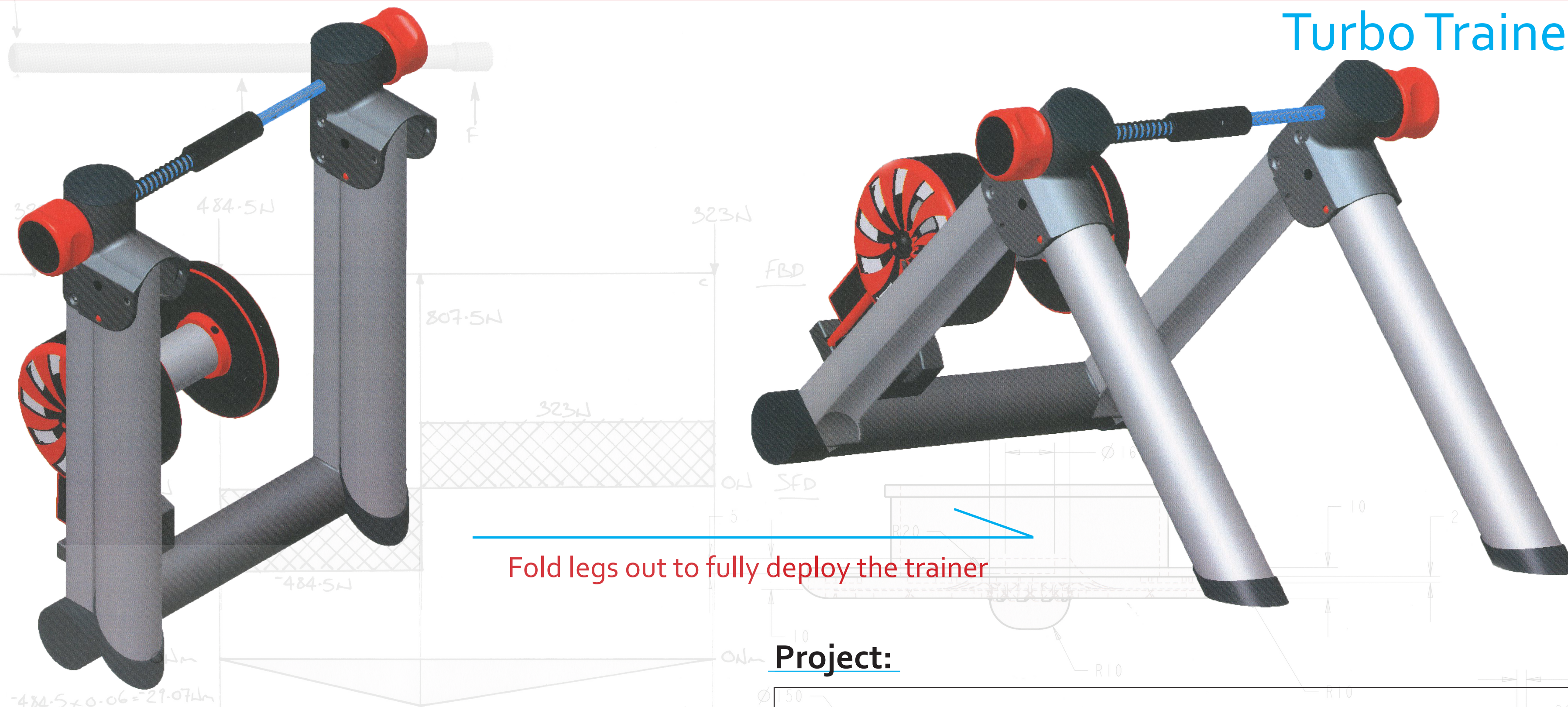


Turbo Trainer CAD Project

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2008



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Engineering



Fold legs out to fully deploy the trainer

Project:

Creating a piece of cycling home exercise equipment in ProEngineer CAD software from scratch (except standard components such as bearings, springs and screws)

Made to a high mechanical and manufacturing standard

Used force analysis, free body diagrams, bending moment diagrams and standard section calculations to justify the engineering design

Created a full scale prototype from wood, blue foam, PVC piping and screws, etc. Not a working prototype, but served to demonstrate the basic mechanism design

