

## **AEM 341 Extra Credit #4 (For Honors Day)**

Due: 11<sup>th</sup> April 2018

Maximum credit: +10 pts (2%) to your final grade

1. [10 pts] Review the RV7 drawings at: [charles-oneill.com/aem341/rv7plans.pdf](http://charles-oneill.com/aem341/rv7plans.pdf)

The RV7 is a common all-metal homebuilt sport aircraft. Using the stressed-skin topics discussed in AEM341 provide a detailed description and technical analysis of **5 major aircraft components** of the RV7. Technical analysis means that you should use beam bending, torsion, or shear analysis based on the given geometry to describe why the part is designed as shown.