**DESIGN THINKING SKILLS**
TeachEngineering.org

**FORMULATING PROBLEMS**
Engineers take time to observe, infer and apply their breadth and depth of knowledge to thoughtfully frame a problem within the limits of available time, money, and resources.

**SEEKING SOLUTIONS**
Engineers incorporate their personal experiences and intellect with empathy and understanding for all stakeholders to develop human-centered products or services.

**THRIVING IN UNCERTAINTY**
The unknowns and limitations of a problem, especially wicked problems, offer engineers opportunities to be creative in developing innovative and practical solutions.

**COLLABORATING CONSTANTLY**
Engineering team members bring their own perspective and collective expertise together to scope problems and negotiate desirable, feasible and viable solutions to problems.

**PROTOTYPING IDEAS**
After generating ideas and gathering information about a problem, the rapid and rough creation of models and sketches (prototypes) inspire engineers to visualize options and inform possible solutions.

**ITERATING OPTIONS**
Engineers test many versions of their prototypes as they develop, implement, and evaluate possible solutions - which over time improves their understanding of the problem.

**REFLECTING FREQUENTLY**
Assessing and talking through iteration cycle outcomes allows engineers to simultaneously and repeatedly define and refine both their understanding of the problem and ideas for solutions.

**Engineers make a world of difference!**

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