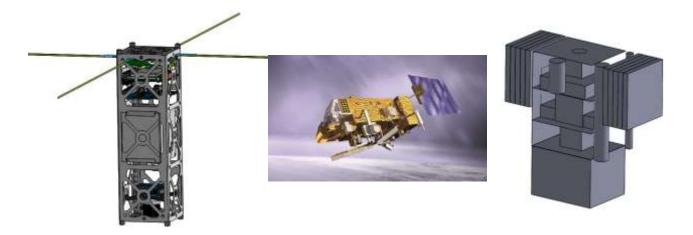# MAE Meng project offerings in the SEAK Lab– Fall 2016

Do you like **programming** AND **space**?

We are looking for **one or more motivated Meng students in MAE, ECE** or **CS** to participate in the development of an intelligent assistant to design satellite missions. This intelligent system is intended to assist (not replace) an expert satellite mission designer, by doing things such as estimating the performance and cost of a mission, suggesting promising mission designs or critiquing designs proposed by the user, all while interacting with the user using natural language. The exact duties of the student will depend on his or her qualifications and preferences.

Qualifications

- Excellent programming skills (at least 1 scripting language such as Matlab or Python and 1 object-oriented language such as Java or C++)
- Solid engineering skills, particularly in basic dynamics and thermodynamics
- Ability to work autonomously and in a team
- Knowledge about spacecraft design is a plus but not required
- Experience with a functional programming language or a rules engine is a plus but not required
- Experience with CAD is a plus but not required

Application Instructions

E-mail Prof. Selva (ds925@cornell.edu) with the following materials:

- Updated CV
- Unofficial transcript
- Short paragraph indicating your motivation
- Level of effort (number of credits desired)

More info: Research group website: http://www.selva-research.com