# JSC Senior Design Project and or Intern Request Form

<table>
<thead>
<tr>
<th>Project Title:</th>
<th>Live 3D Video Stitching</th>
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<tbody>
<tr>
<td>Project Description:</td>
<td>This project assesses feasibility of stitching imagery from video cameras to achieve a 3D panoramic view in real time. The study should include options such as 2 or more consumer grade 3D camcorder video output streams (AVCHD format) and multiple standard video cameras working together to achieve the wide field of view and 3D imagery. It should also consider effects of camera zoom settings and the ability to adjust pan/tilt. If feasible we would like to have a prototype developed and demonstrated - this development could be done as a separate project as needed.</td>
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<tr>
<th>Choose most appropriate area of research:</th>
<th>X Planetary Surface Systems  ☐ Ground Operations  ☐ Propulsion  X Spacecraft  ☐ Human Health Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Applicability</td>
<td>☐ ISS  ☐ CEV/SLS  ☐ Commercial Crew  ☐ Asteroid  X Adv. Technology (AES/STMD)</td>
</tr>
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## Choose one project:

### Roles and Responsibilities of Senior Design POC/Mentor

- **Senior Design**
  - I have coordinated with my management and I am able to support at least three (3) teleconferences (kick-off, mid-term, and final) with a Senior Design Project Team at a university that chooses my project. I understand that I shall not provide any sensitive or classified information to the Senior Design Project students of faculty. I will provide feedback to the project team if requested.

- **Internship**
  - I have coordinated with my management and I am able to support an intern. If an intern is selected for my project, I will provide an environment where an intern can grow and we may have a mutually beneficial and successful internship. My project will be able to provide a desk space, work area, and computer for an intern. I will review any final report or presentation that the intern generates during his/her internship and submit it to Export Control (DAA) for approval. This project opportunity will be posted in OSSI, through the office of Education (use exact same title). OSSI website: [https://intern.nasa.gov](https://intern.nasa.gov)

### Check desired Timeframe for Internship:

- ☐ Year long  ☐ Summer  ☐ Fall  ☐ Spring

### Check desired Major/Minor(s) for Internship:


### Mentor Name:

- Max Haddock

### Mentor’s E-mail:

- Maxwell.d.haddock@nasa.gov

### Title & Organization:

- Engineer - NASA/JSC Engineering Human Interfaces Branch (EV3)

### Phone #:

- 281-483-7241

### Alternate POC/Mentor Name:

- Helen Neighbors

### Alternate’s E-mail:

- Helen.neighbors-1@nasa.gov

### Education Office Signature and Date:

- Intern Mentor’s Signature & Date

### As supervisor/manager, I approve of the above named individual as Senior Design Project POC of Intern Mentor.

- Supervisor/Manager’s Signature & Date
(For Intern Request Only) As Administrative Officer, I am aware that the above named Intern Mentor has submitted a request for an Intern.

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<thead>
<tr>
<th>Administrative Officer’s Signature &amp; Date:</th>
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