ELaNa

Educational Launch of Nanosatellite
Providing Routine RideShare Opportunities

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PPOD Project Manager
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“Launching Education into Space”
ELaNa
Educational Launch of Nanosatellite

“Science, Technology, Engineering, and Mathematics”

“Launching Education into Space”
ELaNa III Launched Oct 25 2011
NASA CubeSat Initiative

3 Calls for CubeSats has reached 24 States
68 CubeSats Selected with 25 Manifested
## NASA CubeSat Initiative

<table>
<thead>
<tr>
<th>Proposals</th>
<th># of Props Submitted</th>
<th># of Props Selected</th>
<th># Manifested</th>
<th># Launched</th>
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<tbody>
<tr>
<td>Total</td>
<td>97</td>
<td>68</td>
<td>25</td>
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<table>
<thead>
<tr>
<th>University</th>
<th># of Univ</th>
<th># of NASA</th>
<th># of DoD</th>
<th># of Private</th>
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<td>9</td>
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<table>
<thead>
<tr>
<th>Size</th>
<th>1U</th>
<th>1.5U</th>
<th>2U</th>
<th>3U</th>
<th>6U</th>
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<td>Total</td>
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<td>7</td>
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<table>
<thead>
<tr>
<th>By Orbit</th>
<th>51° at 325km</th>
<th>LEO Sun Sync</th>
<th>LEO Non-Sun Sync</th>
<th>GTO</th>
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<td>Total</td>
<td>21</td>
<td>12</td>
<td>33</td>
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</table>
Manifested Missions

- **ELaNa I**: Failed to reach orbit
  - FY08
  - March 4th

- **ELaNa III**
  - FY09
  - October 25th
  - Successful

- **ELaNa IV**
  - FY10
  - August

- **ELaNa V**
  - FY11
  - July

- **ELaNa VI**
  - FY12
  - August

- **ELaNa II**
  - FY13
  - October
  - 3.3 – PPOD
  - 8 Cubes

- **ELaNa VI**
  - FY14
  - 2 – PPOD
  - 4 Cubes

**9 – CubeSats Flown**
**25 – CubeSats Manifested**
Mission of Opportunities

<table>
<thead>
<tr>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
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<tr>
<td></td>
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<td></td>
<td>Potential CRS Flights</td>
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- **ELaNa VII**
  - Dec 2013

- **ELaNa VIII**
  - Mid 2014

- **ELaNa IX**
  - Early 2015

- **ELaNa X**
  - 2015

- **ELaNa XI**
  - 2016
Questions