



# First Look at Results from a Nationwide Survey Regarding Student CubeSat Project Participation Benefits

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# Overview

- Motivation for the Survey
- Prior Work
- Survey Given & Results





# Motivation for the Survey

- Figuring out whether benefits were occurring (we believed this to be the case)
- Determining what benefits are occurring
- Trying to determine what aspects of a program create particular areas of benefit
- In the longer term, allowing programs to collect data that they can compare to a national data set





# Prior Work

- We've conducted similar surveys at UND for a period of time
- These started with a very simple survey on 5 areas of focus and has expanded
- We've incorporated questions from a prior survey as well: the Undergraduate Research Student Self-Assessment (URSSA)
- We've also asked a number of CubeSat-specific questions and included an area of benefit survey





# Plug: Help Us Get More Results

- This work is still ongoing
- Students, please take the survey online at:

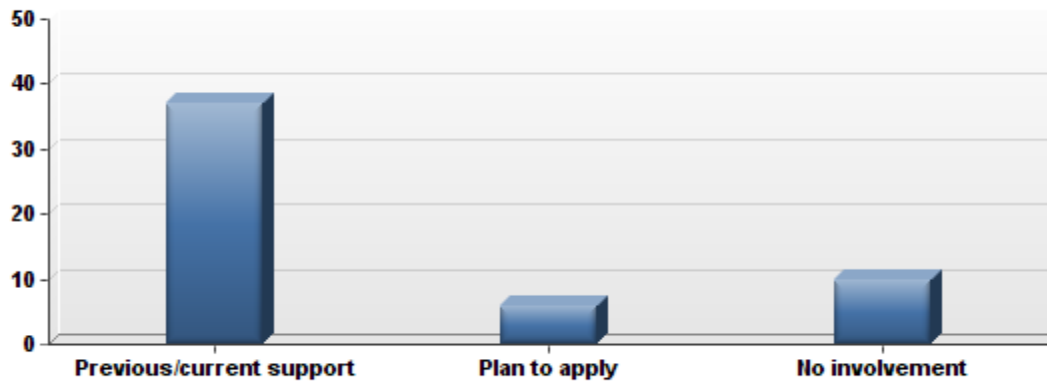
<http://bit.ly/1DI8zWb>

- This URL will be given again at the end ...



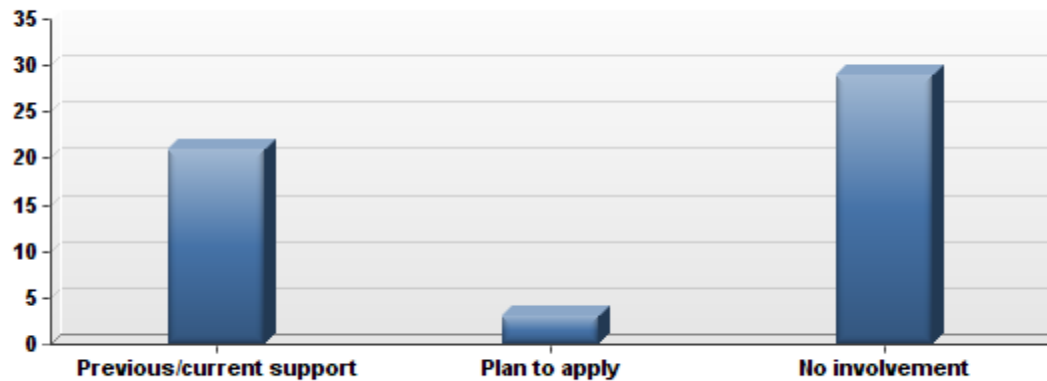


# Involvement with the University NanoSat Program:



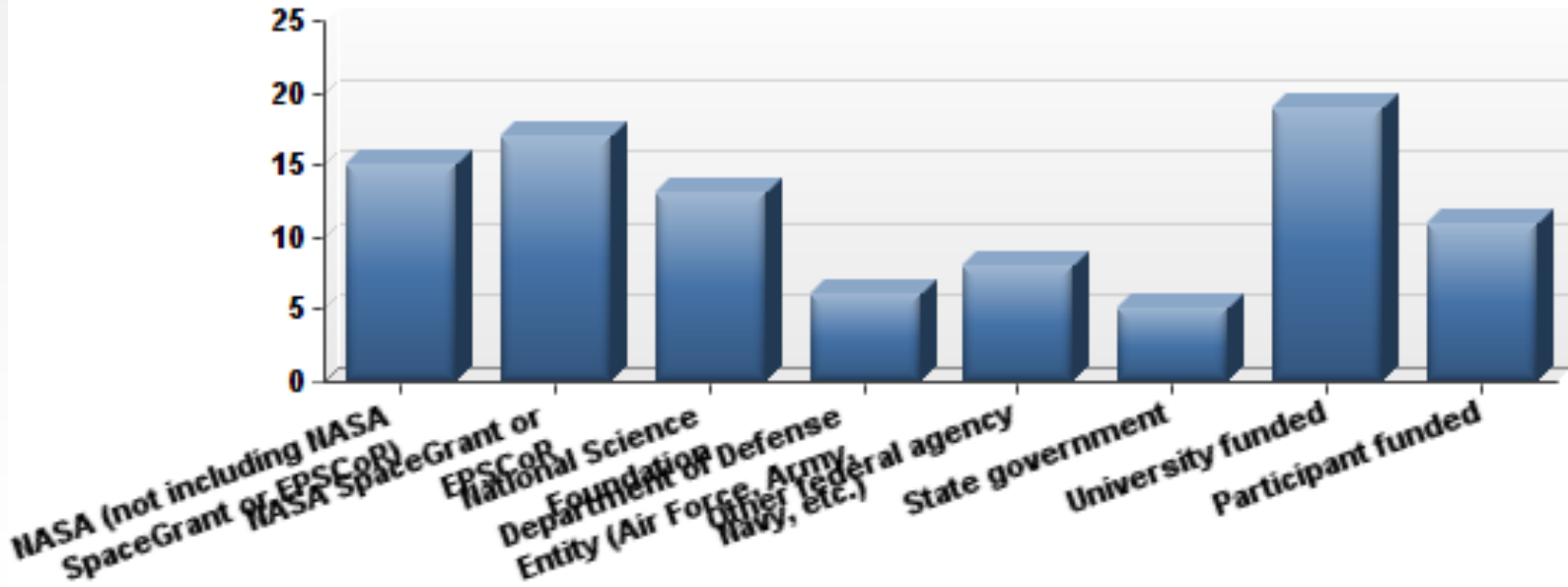


# Involvement with the NASA ELaNa Program:





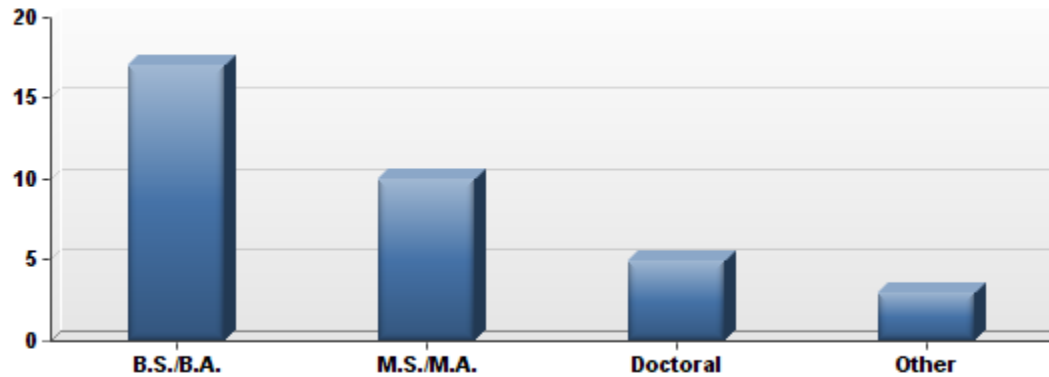
# Program funding (select all that apply):





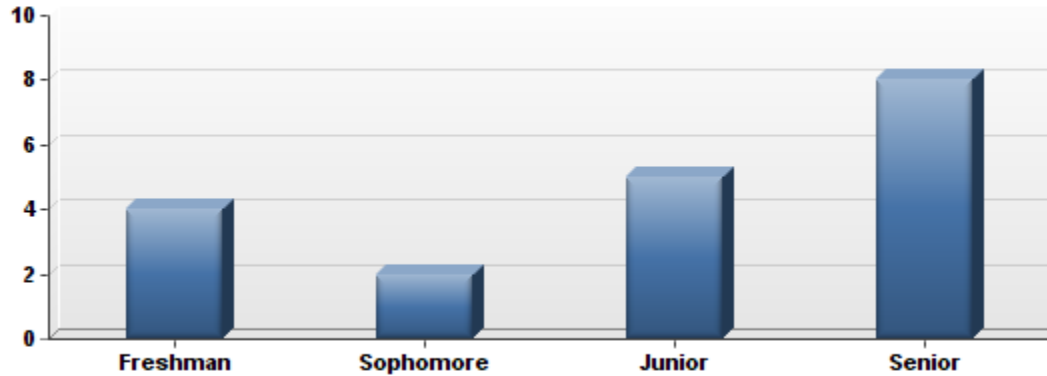


# Academic level:



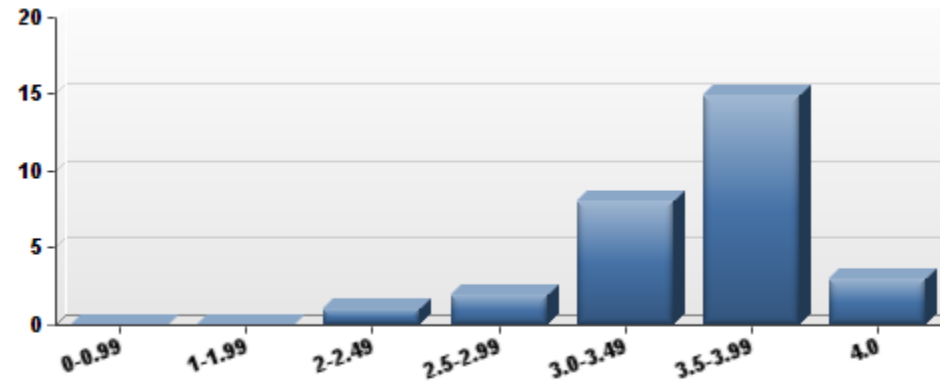


# Class (undergraduate):



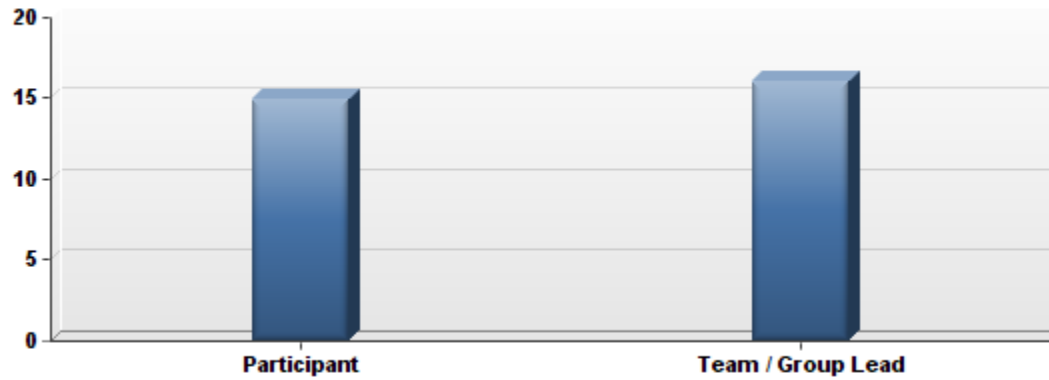


GPA (on 4-point scale where A=4, B=3, C=2, D=1, E/F=0)





# Role:





# What benefits did you hope to gain by participating (please check all that apply):

#	Answer	Response	%
1	Knowledge about spacecraft design	27	96%
2	Knowledge about structured design processes	21	75%
3	Knowledge about a particular technical topic	19	68%
4	Knowledge about project management	23	82%
5	Knowledge about time management	19	68%
6	Leadership experience	22	79%





7	<b>Improving technical skills</b>	<b>26</b>	<b>93%</b>
8	Improving time management skills	18	64%
9	Experience working with those from other disciplines	24	86%
10	Real-world project experience	27	96%
11	Item for resume	21	75%
12	Improved presentation skills	17	61%
13	Inclusion as author on technical paper	6	21%





14	<b>Experience working on a large group project</b>	<b>23</b>	<b>82%</b>
15	Experience with a structured design process	23	82%
16	Experience related to a particular technical topic	17	61%
17	Project management experience	18	64%
18	Time management experience	16	57%
19	Improving leadership skills	21	75%
20	Improving project management skills	19	68%





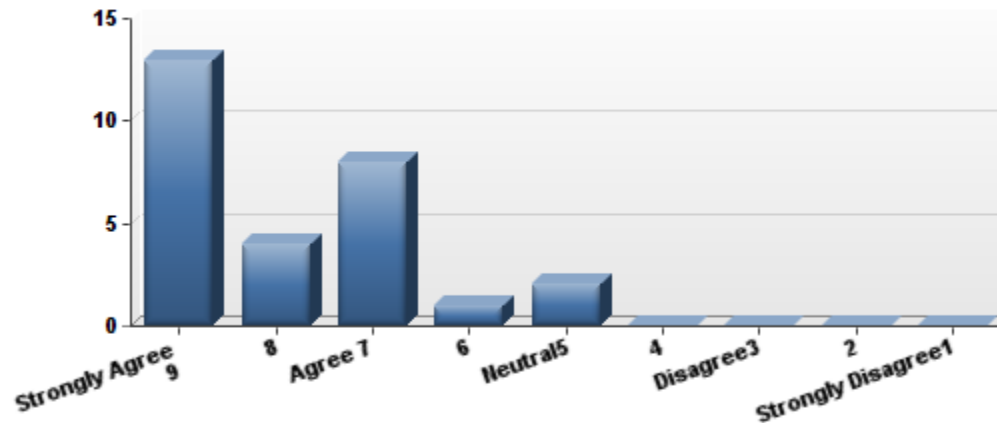
21	<b>Understanding of how my discipline relates to others</b>	18	64%
22	Learn other discipline's technical details/terminology	19	68%
23	Improved chance of being hired in desired field	21	75%
24	Increased self-confidence	16	57%
25	Ability to present at professional conference	12	43%
26	Recognition in the university community	13	46%





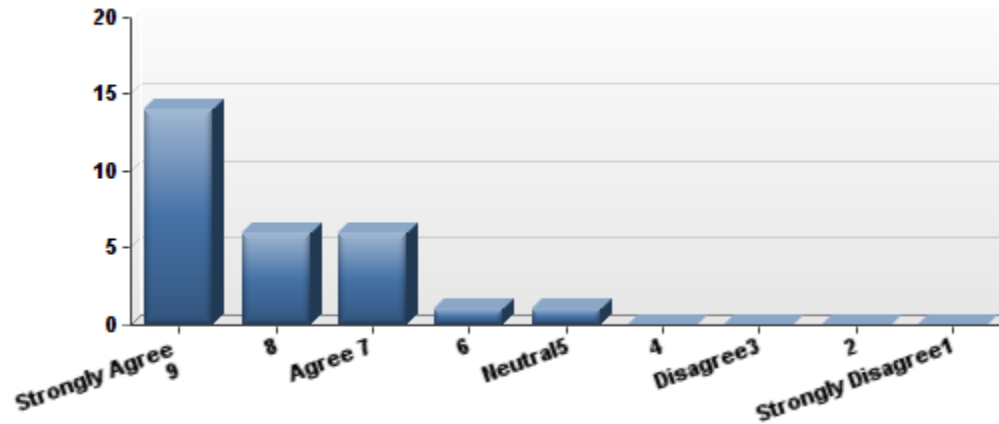


I am interested in seeking employment in the field that I participated in:



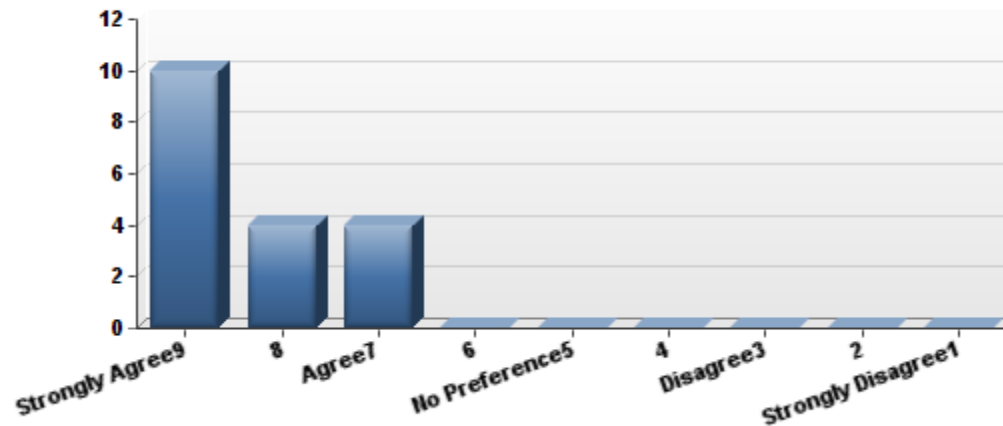


I believe that participation will aid me in securing employment when graduating:



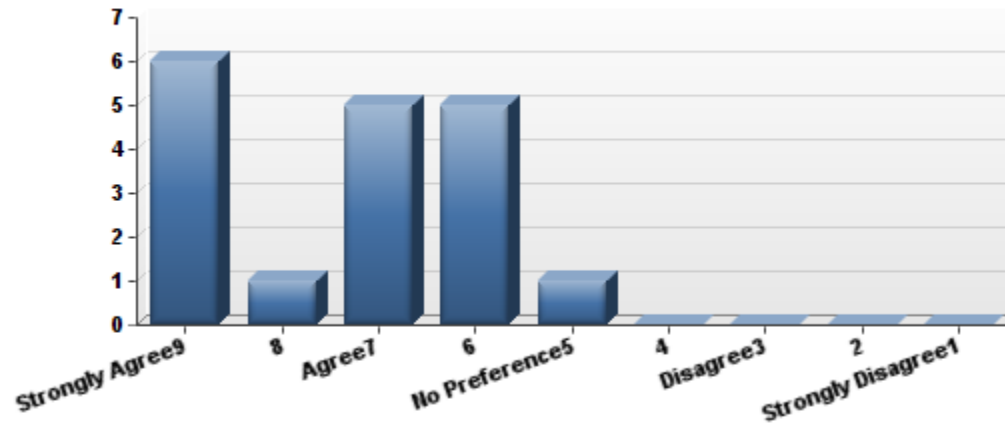


Participation in this project has improved my technical skills:



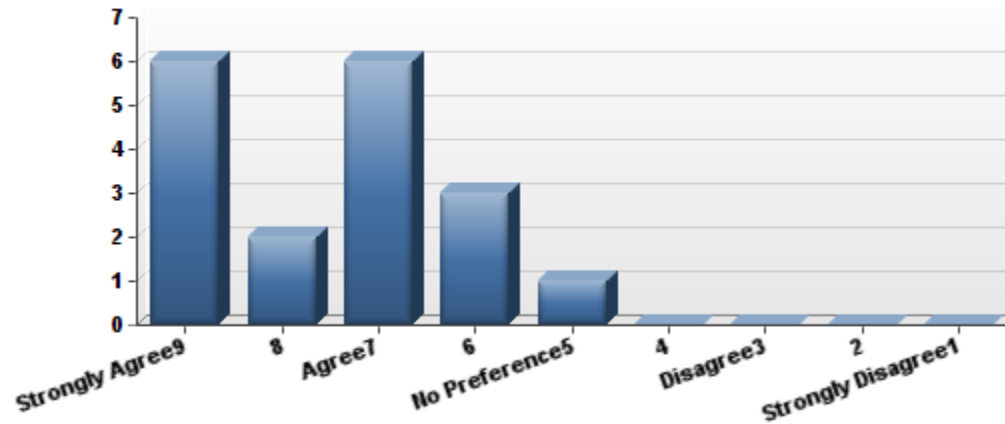


Participation in this project has improved my project leadership confidence:



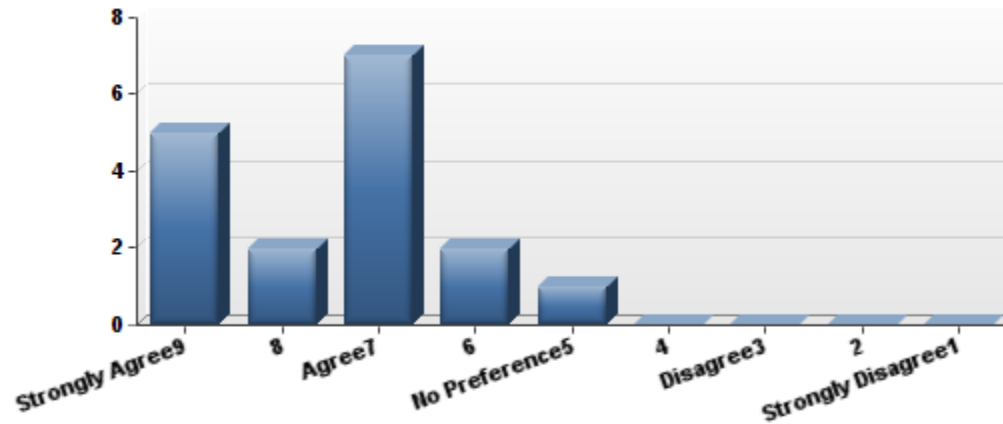


Participation in this project has improved my leadership skills:



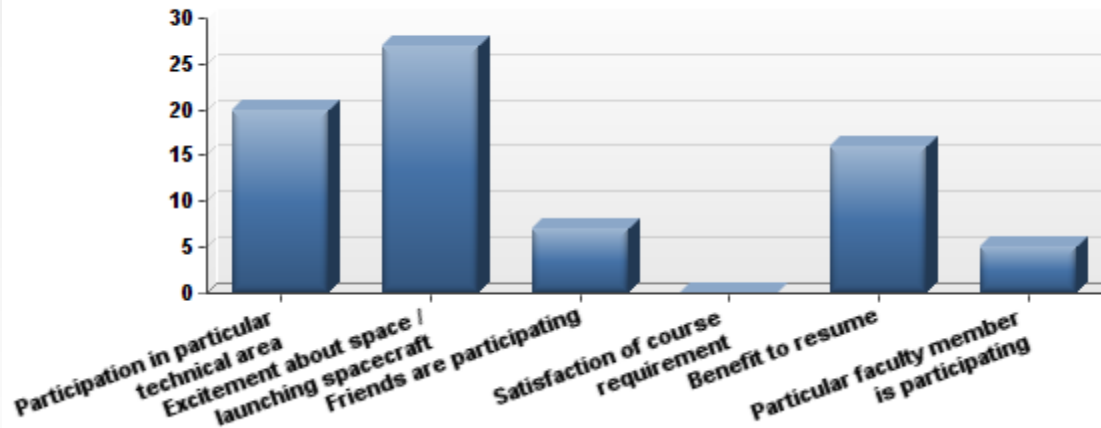


Participation in this project has improved my time management skills:





# What interested you about this project: (select all that apply)





# Conclusions & Future Work

- Definitely indicates that there is considerable value to CubeSat program participation
- Shows that value comes from numerous areas
- Assessment process is ongoing and we hope to expand this beyond university programs in the near future!







# Help Us Get More Results

- Students, please take the survey online at:

<http://bit.ly/1DI8zWb>

- Contact with questions & comments:

[jeremy.straub@my.und.edu](mailto:jeremy.straub@my.und.edu) or +1-701-777-4107

