



## 2018-2019 UNH PARENTS ASSOCIATION GRANT APPLICATION FORM

Award Amount: \$4,000 maximum for groups/\$1,000 maximum for individuals

Please attach a proposal to this application. Proposals should be no more than three pages, in addition to the three pages of this application.

**Deadline: Thursday, Nov. 15th, 2018 by 4pm.**

- *The application must be typed, completely filled out, and signed.*
- *Deliver two printed copies of the grant application and proposal to Lynn Beaver in the Dean of Students Office, Room 118, Thompson Hall, or email one signed copy to [lynn.beaver@unh.edu](mailto:lynn.beaver@unh.edu). (Electronic signature NOT accepted.)*
- *Late submissions are not accepted. • All applications must adhere to grant parameters. See [www.unh.edu/parents/grantprogram](http://www.unh.edu/parents/grantprogram) for details.*
- *All grant writers are strongly encouraged to consult with staff of the Connors Writing Center when developing proposals: Room 329 of the Dimond Library (<https://www.unh.edu/writing/cwc>).*

APPLICANT NAME: **Shaun Kerr**

APPLICANT'S YEAR AT UNH: **Senior**

APPLICANT'S EMAIL: **[srk1006@wildcats.unh.edu](mailto:srk1006@wildcats.unh.edu)**

ORGANIZATION: **UNH Extra-Terrestrial Navigation Swarm (ET NavSwarm)**

(Please spell out acronym)

Please briefly describe what you/your organization does: **ET Nav-Swarm is a senior capstone team and undergraduate organization builds autonomous robots to act as a test platform for graduate research into the Particle Swarm Optimization algorithm.**

Please briefly describe your project proposal, this is the synopsis that will be given to the committee making the funding decisions. *(Do not say- "see attached.")*: **This year, ET-NavSwarm plans to add an additional ten robots to the current ten bot fleet. This is a large undertaking as it has taken five years to reach the current number of functioning bots. We also hope to be the first team to successfully test the Particle Swarm Optimization algorithm by mapping Boulder Field. At the end of the year, we hope to take our robots to NASA's Goddard Test Flight Center in Maryland to present our progress on the development, and results of the algorithm to NASA scientists and engineers.**

**Total Amount of Funds Requested: \$4000**

(A complete and detailed budget for this proposal must be included with your proposal)

In a short paragraph, answer the following questions: What has your organization done in the past for fundraising? What are the plans for fundraising this year or next?

Approximately how much does your organization raise yearly with this fundraising?

How are these funds used? If applying for an individual grant, please provide information about why you are seeking this financial support.

**ET NavSwarm receives funding from the CEPS Dean's Office, and the Mechanical Engineering department. We also reach out to private companies for sponsorships throughout the year. As of the time of this submission, ET-NavSwarm needs to raise at least an additional \$7785.00. ET-NavSwarm usually raises between \$15,000 and \$20,000. Funding for this program goes towards the development of new robots and the costs of travel to Goddard Test Flight Center.**

Does your group receive SAFC or any funds from UNH? Are you contributing any of these funds to this project? Why or Why not? (N/A for individual requests.)

**ET-NavSwarm is not eligible for SAFC funding.**

Number of students served by this proposal (directly & indirectly.) If applying for an individual grant, how will this support impact your academic/professional goals? Will it serve other students?

**We serve eleven mechanical engineering seniors on the capstone team, and an additional fifteen students within the organization. We also serve with four mechanical engineering graduate students, and one computer science graduate student.**

Sources and amounts of other support financial and non-financial you/your organization has requested for this proposal:

**ET-NavSwarm only requests financial support from the Parent's Association.**

Previous UNH Parents Association Grants/Gifts received by you/your organization: (Please list year given.)

**2014 - \$2000**

**2015 - \$1000**

**2016 - \$1000**

**2017 - \$1000**

If only partial funding was awarded, would your proposal remain viable? (circle) **Yes** No

Please remember to include the following information in your proposal:

1. **Proposal for the use of funds** – include all program specifics and a timeline.
2. **Budget** – a detailed budget is required for the proposal to be considered
3. Any **background information** that would inform the Grant Committee about your organization and its purpose.

Applicant's Signature: Shawn Lee

Date: 11/15/18

**Students & Student Groups must have a Faculty or Administrative Sponsor Signature.**

Sponsor's name: please print May-Win Thein

Sponsor's Signature: May-Win Thein

Sponsor's phone number (603) 862-1158

Date 11/15/18

Sponsor's recommendation:

I am in full support of this petition  
and of the ET NavSwarm Team. They have  
traditionally been very active within UNH and  
community outreach and are well-received when  
they present their results to aerospace engineers  
at the NASA Goddard Space Flight Center.

UNH Parents Association Grant Committee  
Dean of Students Office Room 118, Thompson Hall  
University of New Hampshire Durham, New Hampshire 03824  
(603) 862 2053