



## 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)