Organization: The Helping Hand Project (HHP)

Mission: To support the limb difference community and educate the individuals who wish to impact it.

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Direct Supervisor Phone Number: 2529083220

Brief Description of Possible Project(s) for a Brodhead Service Program:
The specific project(s) that the volunteer works on will be chosen based on the skills and interests of the individual. The volunteer may work with other student-volunteers over the summer, as well as other HHP non-profit members. Each of the projects below will come with guidance from Jeff Powell, the founder of The HHP.

Design Projects
1. Design a custom prosthetic device for a child whose unique anatomy is not served by current designs.
2. Create a wrist-powered alternative to the Kwawu 2.0 Arm, the most advanced open-source elbow-powered prosthetic arm.
3. Create a wrist-powered prosthetic hand design, or modification of a current open-source design, which is a closer-sized match to the user’s full hand.

Organizational Projects
1. Put together a comprehensive list of clinical teams which work with the upper-limb difference community. Establish a relationship with these providers so they may understand 3D-printed prosthetic devices and The HHP, so we may be an option for their patients to consult. This may also lead to prosthetist involvement which helps us improve our devices.
2. Develop an improved method for The HHP to gather feedback from previous device recipients.
3. Put together a resource list of task-specific traditional prosthetic devices for the HHP parents to consult.
   a. This may give the individual ideas of new task-specific 3D-printed designs to create.
4. Make improvements to our donation workflow – both by automating processes and improving our documents.

Ideal Dates of Service (Brodhead Fellows commit to a minimum of five weeks of full-time service):
May 14th – July 31st