Purdue EPICS and Habitat for Humanity
Partnership - Service-Learning for Over 20 Years

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**EPICS**
EPICS is a service-learning design program in which teams of Purdue students partner with not-for-profit organizations to provide engineering and design solutions.

**Habitat for Humanity**
Habitat for Humanity’s mission is to provide affordable housing to those who have a lower income by partnering with businesses, families, and individuals to build safe, high-quality homes.

**Habitat for Humanity EPICS Team**
The Habitat for Humanity EPICS team has been working with the Lafayette affiliate of Habitat for Humanity for over 20 years to accomplish organizational, engineering, and design challenges to assist in Habitat’s operations.

**Recent Projects**

**Fall 2016 – Spring 2017**
- Sign Storage Unit
- Steel Truss Protection
- Framing Futures Shelf
- Railing Protection

**Fall 2017 – Present**
- Electric Bicycle Lift
- Structural Analysis
- 3D Modeling
- Web Application

**Team Website:** [https://epics.ecn.purdue.edu/hfh/](https://epics.ecn.purdue.edu/hfh/)
**Journal Publication:** [https://docs.lib.purdue.edu/pjsl/vol4/iss1/4/](https://docs.lib.purdue.edu/pjsl/vol4/iss1/4/)

**Partnership Benefits**

**For Students**
Students learn engineering from hands-on work, developing soft skills that cannot be learned from textbooks. They experience real design challenges as well as the satisfaction of delivering a product that will be put to actual use.

**For Habitat**
Habitat for Humanity implements and regularly uses the design solutions that students deliver. Past projects have resulted in greater equipment organization, improved safety measures, energy-efficient designs for homes, and more efficient working methods.