

Stow Step

Low-cost, foldable dorm bed step with >300 lb support and anti-slip safety design.

A common problem for college students who reside in dormitories is getting in and out of their lofted beds. Most students currently either climb over their desk to reach the bed, use the slippery built-in polished wood ladder or purchase large, expensive collapsible ladders. These methods are often uncomfortable or unsafe.

Researchers at Purdue University have developed a novel tool for climbing in and out of lofted beds in a way that is safe, convenient and compact. The product is able to support more than 300 pounds, can be produced for just \$8, and includes anti-slip grip tape for safety. This device attaches easily to the standard dormitory room bed frame and folds up for out-of-the-way storage.

Advantages:

- Easy to install
- Simple and convenient
- Low manufacturing cost

Potential Applications:

- Helping college students climb in/out of lofted beds

TRL: 4

Intellectual Property:

Provisional-Patent, 2019-08-08, United States

Utility Patent, 2020-08-06, United States

Keywords: Climbing, College Student, design, Dorm, Furniture, Ladder, Lifestyle, Mechanical Engineering, Safety

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Buildings, Infrastructure, &
Construction/Smart Furniture &
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