The Problem:
For those who have difficulty bending over, kneeling down, or lifting their legs up to them while seated, tying shoes can be a difficult if not nearly impossible task. It is for those people who struggle with this action that this has been designed.

Our Solution: Our solution is designed to be used by people of average male and female heights due to its adjustable height. It can be used on any surface and will remain in place because the rubber stoppers prevent sliding. The center of the mechanism contains a gas cylinder operated by the pedal on the side. This cylinder is what lifts the user's leg. It has a travel of 6 inches. This is for use next to seats, beds or ledges of heights of approximately two feet. The collapsible nature of the legs allows the device to take a more slim profile for storage purposed. A cushion will be affixed on the top of the lift plate. To push the cylinder back down, the user can easily sit on the device. Built with aluminum to be lightweight and portable, the device can be moved by the user, even if living independently. To accommodate users of varying weight, different pressure and size gas cylinders can be used to elevate their foot. The convenience of the foot pedal allows for easy operation without bending over. The design is durable as well, being made from aluminum and rubber. In the case of an accidental drop, the device does not damage floors and will not be damaged itself. Pins attach the gas cylinder to the legs, locking it in place.