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A FOOT-OPERATED COMPUTER MOUSE

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Over many months, multiple drafts, and tests, our team has developed a foot-operated mouse for individuals with upper body disabilities that are unable to use a standard mouse. Our goal was to create a more affordable option while keeping simplicity and ease of use in mind. The cursor on a computer display screen can be manipulated with a button like joystick: by tilting the foot in four directions. There are also two buttons that function as left mouse button and right mouse button; we also included two buttons dedicated to scrolling, making it much more comfortable to use websites and social media. The simplicity of the built minimizes the risk of the system failing and allows for faster service if needed. Most parts are 3D printed or laser cut, so the material can be customized to the client, making the mouse more affordable, durable, or environmentally friendly. We hope to assist as many people as possible in their daily computer use, whether it is attending a video conference or scrolling through social media. We believe that by creating a mouse that can allow more people access to the Internet, we can help more people learn, socialise and entertain themselves every day.

