

WalkWise

Smarter steps to healing

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Summary :

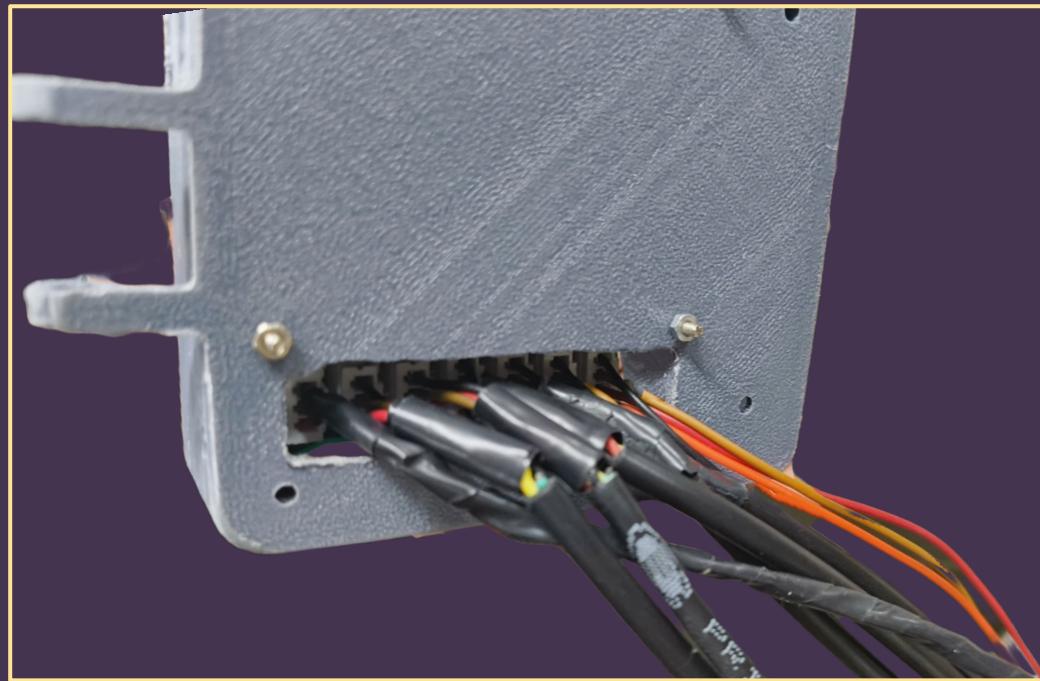
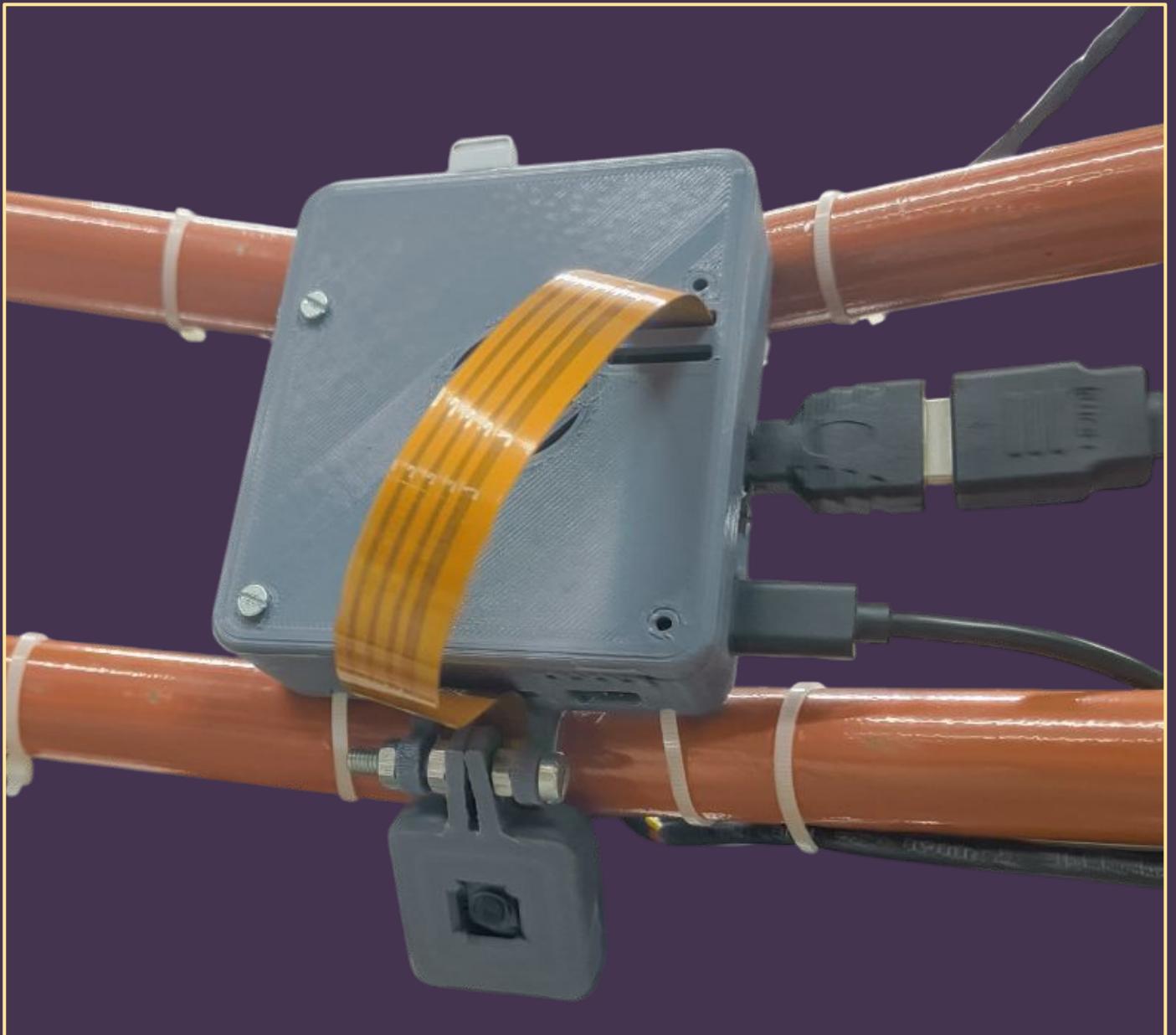
A smart walker that helps elderly and rehabilitating patients walk correctly by guiding foot placement, monitoring weight distribution, and providing real-time feedback to reduce injury risk and speed up recovery.



Status of Project

Key specifications and requirements proposed at beginning of semester	Status at end of semester	Remarks
Detect correct foot placement using camera.	Complete	
Monitor weight distribution with load cells on each leg of the walker.	Complete	
Provide real-time feedback via haptic sensors and LCD display.	Complete	We have kept the LCD feedback headless removed due to concerns it might cause users to focus on the screen, increasing the chance of falls
Log walking pattern data (steps, errors, weight balance) for clinical review.	Complete	
Provide voice feedback to guide users.	Incomplete	Dropped as existing feedback methods were found to be sufficient.

Final Prototype



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