

Augmentation of Human Strength through Wearable Robotics.

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ABSTRACT

To aid workers and servicemen who are required to lift heavy loads for prolonged periods of time, a third arm style exoskeleton system has been developed which a user can wear to reduce the loads that they would otherwise be subjected to, whilst still providing feedback about the weight of the load. To demonstrate the concept, master and slave arms with two degrees of freedom have been constructed. The system is built using modular electronics so can be expanded easily for further development.



Figure 1. Master control arm being worn by a user

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