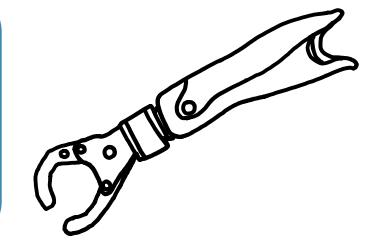
Design and Development of a Diagnostic System to Enhance Trans-Radial Prosthetic Fabrication

MacKay, K., Ngan, C.C., Sivasambu, H., Andrysek, J.

Background

Trans-radial (below-elbow) prostheses aim to replicate the form & function of the forearm + hand



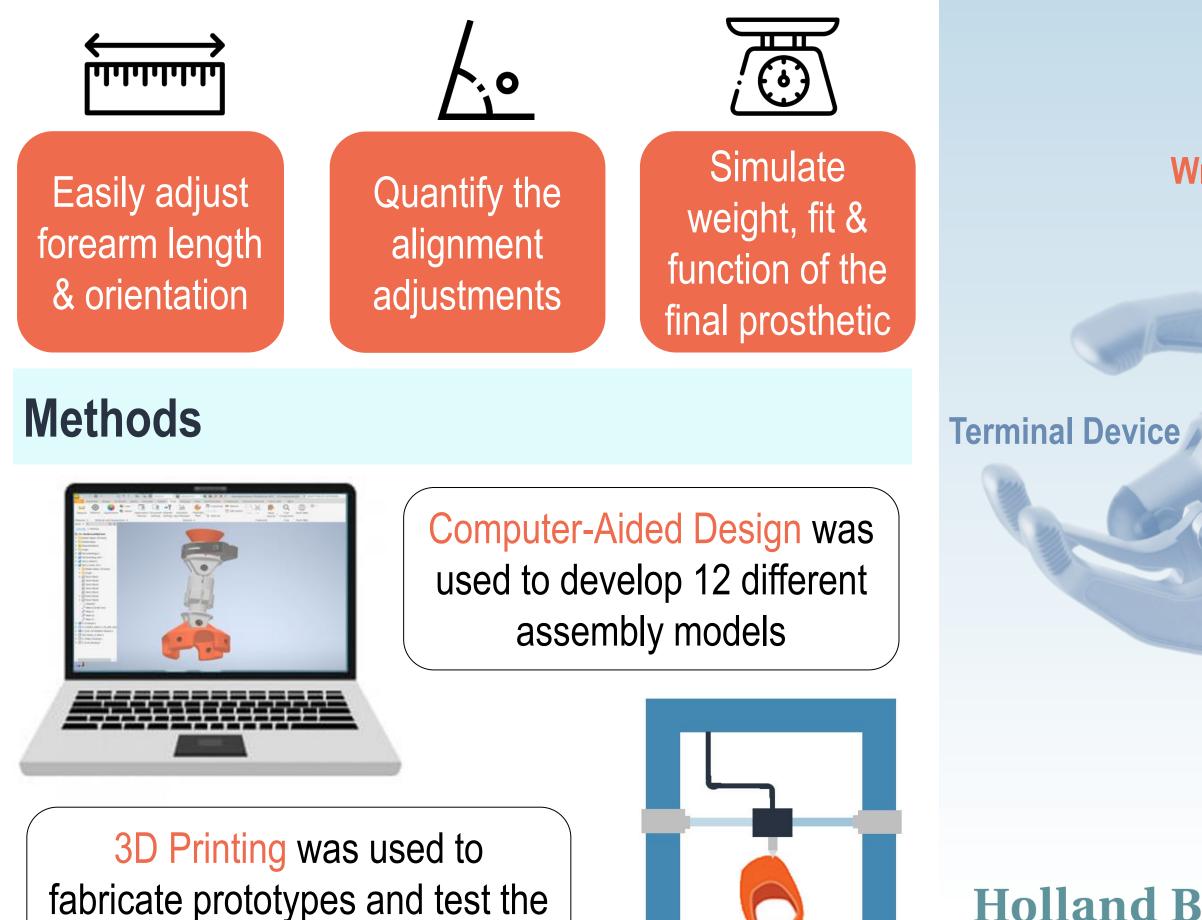
Fabrication requires trial and error which results in:

- → More Client Visits
- Increased Manufacturing Time & Cost
- Higher Chance of Prosthetic Abandonment

Device Objectives

structural integrity of parts

Design and develop a diagnostic prosthetic system to:

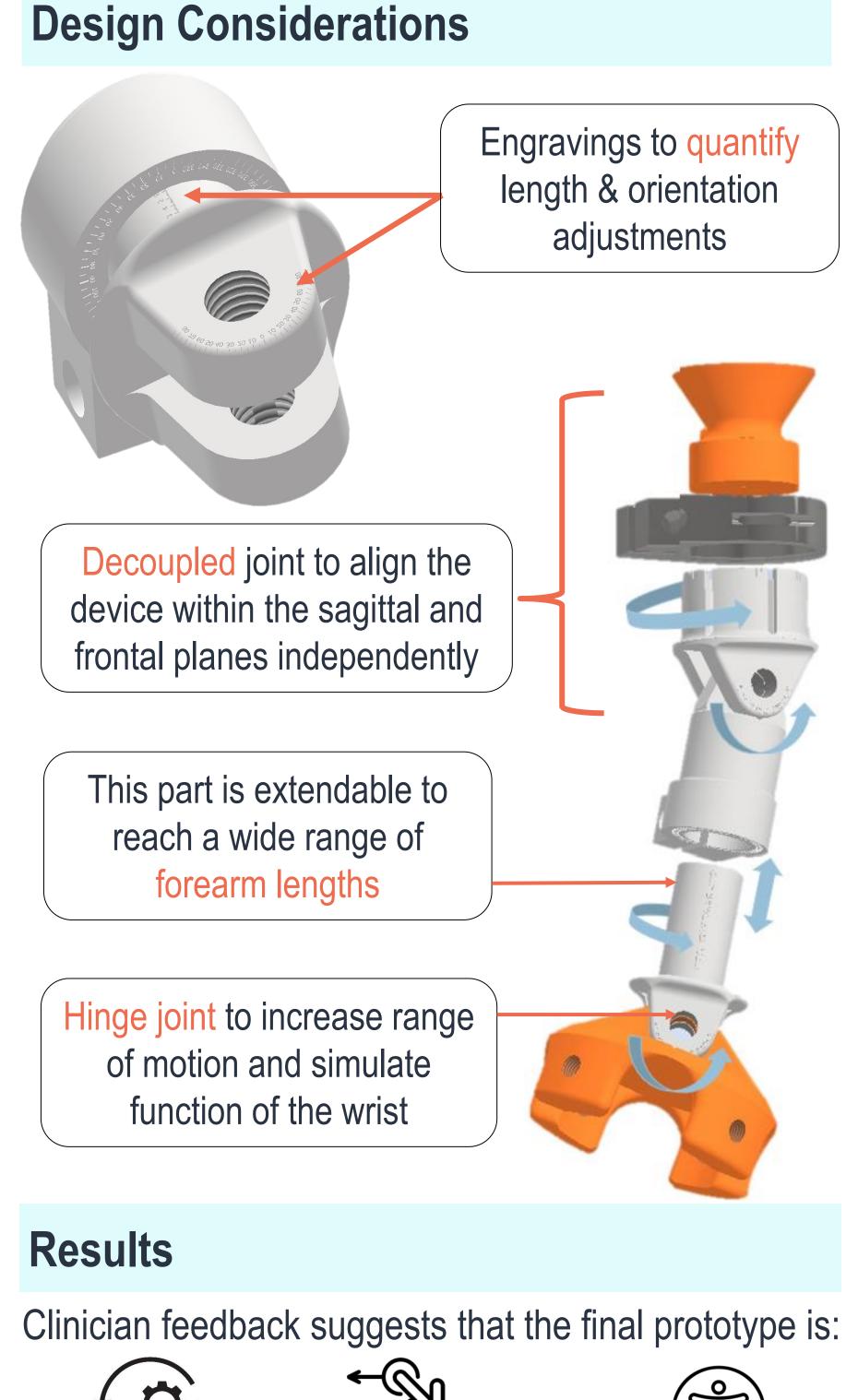


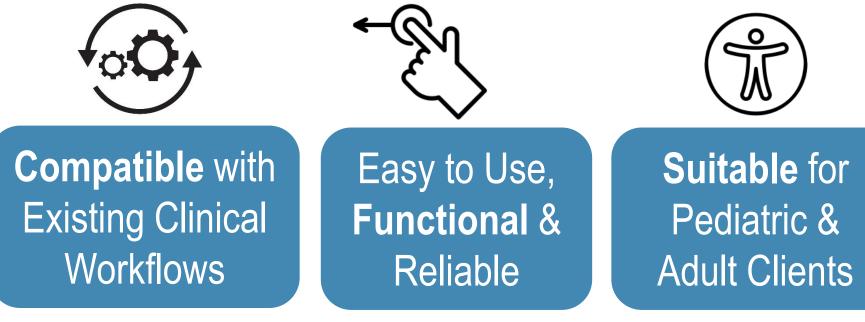
An adjustable 'diagnostic' prosthesis system could be used to assess fit and function prior to fabrication of the final definitive prosthesis.











Impact & Future Steps

Once manufactured, the first-of-its-kind device will undergo pilot testing and clinical utilization to:

- Provide Holland Bloorview clients the opportunity to co-create their own prosthesis
- Promote the device across North America