Academic Thesis: Declaration Of Authorship

I, **Nan Hu** declare that this thesis and the work presented in it are my own and has been generated by me as the result of my own original research.

[title of thesis] **A Measurement System for Hand Rehabilitation**

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| I confirm that:   1. This work was done wholly or mainly while in candidature for a research degree at this University; 2. Where any part of this thesis has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated; 3. Where I have consulted the published work of others, this is always clearly attributed; 4. Where I have quoted from the work of others, the source is always given. With the exception of such quotations, this thesis is entirely my own work; 5. I have acknowledged all main sources of help; 6. Where the thesis is based on work done by myself jointly with others, I have made clear exactly what was done by others and what I have contributed myself; 7. Parts of this work have been published as: [1], [2],[3] |

Signed: …………………………………………………………………………

Date: …………………………………………………………………………

1. Hu, N., P.H. Chappell, and N.R. Harris, *Finger Displacement Sensing: FEM Simulation and Model Prediction of a Three-Layer Electrode Design*, in *IEEE Transactions on Instrumentation and Measurement*. 2018. p. 1432-1440.

2. Hu, N., P.H. Chappell, and N.R. Harris. *Finger displacement sensing: FEM simulation and modelling of a customizable three-layer electrode design*. in *2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC)*. 2018. IEEE.

3. Hu, N., N.R. Harris, and P.H. Chappell, *Experimental Validation of a Contactless Finger Displacement Measurement System Using Electrical Near Field Sensing.* IEEE Transactions on Instrumentation and Measurement, 2020.