

## REFERENCES

*A Brief History of Prosthetics* (no date). Available at:

<https://www.thoughtco.com/brief-history-of-prosthetics-4019665> (Accessed: 3 June 2021).

Aldo, G. (2019) 'Development of Bionic Hand With Improved Reliability and Degree of Freedom', p. 91.

*Arduino - Introduction* (no date). Available at:

<https://www.arduino.cc/en/guide/introduction> (Accessed: 22 January 2021).

Borisov, I. I. *et al.* (2017) 'Prototyping of EMG-Controlled Prosthetic Hand with Sensory System', *IFAC-PapersOnLine*, 50(1), pp. 16027–16031. doi: 10.1016/j.ifacol.2017.08.1915.

*Communication between two Arduino / Arduino Tutorial* (no date). Available at:

<https://arduinogetstarted.com/tutorials/communication-between-two-arduino> (Accessed: 22 January 2021).

*Complete Guide for Lithium Polymer(Lipo) Battery: History, Charging, Safety, Storage and Care* (no date). Available at: <https://www.dnkpower.com/lithium-polymer-battery-guide/> (Accessed: 22 January 2021).

*Does the human hand have 27 degrees of freedom? - Biology Stack Exchange* (no date). Available at: <https://biology.stackexchange.com/questions/30857/does-the-human-hand-have-27-degrees-of-freedom> (Accessed: 7 June 2021).

*Electromyography (EMG) - Mayo Clinic* (no date). Available at:

<https://www.mayoclinic.org/tests-procedures/emg/about/pac-20393913> (Accessed: 3 June 2021).

Roman-Liu, D. and Bartuzi, P. (2013) 'The influence of wrist posture on the time and

---

frequency EMG signal measures of forearm muscles', *Gait and Posture*, 37(3), pp. 340–344. doi: 10.1016/j.gaitpost.2012.07.027.

Satriajaya, A. (2020) *Mechanical Deisgn of a 3D Printed Bionic Hand*. Swiss German University. doi: 10.1088/1751-8113/44/8/085201.

Susantio, B. (2020) *New Sensor Development for Bionic Hand*. Swiss German University.

*Ultimate Materials Guide - Tips for 3D Printing with PLA* (no date). Available at: <https://www.simplify3d.com/support/materials-guide/pla/> (Accessed: 22 January 2021).

*Wrist & Hand Muscles - Origin, Insertion, Action & Exercises* (no date). Available at: <https://www.sportsinjuryclinic.net/sport-injuries/wrist-pain/wrist-hand-muscles> (Accessed: 3 June 2021).



SWISS GERMAN UNIVERSITY