



CURRICULUM VITAE

A. PERSONAL INFORMATION

1. **FULL NAME** ABDUL MANAF ABDULLAH
2. **DESIGNATION** Dr
3. **DATE OF BIRTH** 14 SEPTEMBER 1983
4. **CURRENT POSITION** SENIOR LECTURER
5. **NATIONALITY** MALAYSIA
6. **HOME ADDRESS** 37, JALAN RHU 2/6, HILLPARK, 42300 PUNCAK ALAM, SELANGOR
7. **OFFICE ADDRESS** SCHOOL OF MECHANICAL ENGINEERING, COLLEGE OF ENGINEERING, 40450 SHAH ALAM, SELANGOR
8. **(Mobile Phone No.)** +60139219950
9. **E-MAIL ADDRESS** abdulmanaf@uitm.edu.my, abdmanaf.abdullah@gmail.com

B. ACADEMIC QUALIFICATION

YEAR	UNIVERSITY / SCHOOL	QUALIFICATION
2020	UNIVERSITI SAINS MALAYSIA	PhD
2016	UNIVERSITI SAINS MALAYSIA	Master of Science
2006	CHIBA UNIVERSITY, JAPAN	BACHELOR OF ENGINEERING (MATERIALS TECHNOLOGY ENGINEERING)
2003	KOLEJ YAYASAN PELAJARAN MARA BANGI	JAPANESE ASSOCIATE DEGREE (JAD) DIPLOMA

C. PREVIOUS EMPLOYMENT

Jul 2021 – Sept 2021	Post-Doctoral Fellow, Universiti Sains Malaysia
Jul 2021 – June 2021	Research Officer, Universiti Sains Malaysia
Feb 2017 – June 2020	PhD Fellow, Universiti Sains Malaysia
Nov 2013 – Dec 2016	Research Assistant, Universiti Sains Malaysia
April 2010 – Nov 2013	Quality Control Section Head, Surface Mounted LED Division, Rohm Wako Electronics Malaysia Sdn Bhd.
April 2008 – March 2010	Quality Control Engineer, Surface Mounted LED Division, Rohm Wako Electronics Malaysia Sdn Bhd.
April 2006 – March 2008	Production Engineer, Rohm Wako Electronics Malaysia Sdn Bhd.
April 2005 – March 2006	News translator and announcer, NHK Broadcasting Corporation, Japan. (Part time)

D. PROFESSIONAL POSITION / PROFESSIONAL BODIES / MEMBERS OF SOCIETY

- Graduate Engineer (Board of Engineer Malaysia)
- Graduate Technologist (Malaysia Board of Technologist)
- Committee Member (Malaysian Biomaterials Society)

E. PUBLICATION, AWARDS & DISSERTATIONS, GRANT

JOURNALS (PUBLISHED)

1. Zaheer, N., **Abdullah, A.M.**, Rajion, Z.A., Shahbaz, M., Saeed, Q.M. (2021) Ultraviolet A and Ultraviolet C light-induced effect on Titanium implant surface. *Acta Microscopica*, 30(2), 41-48
2. Abdullah, J.Y., **Abdullah, A.M.**, Hueh, L.P., Husein, A., Hadi, H., Rajion, Z.A (2021) Cranial implant design applying shape-based interpolation method via open-source software. *Applied Sciences*, 11(16), 7604
3. Hassan, R., Khan, M.U.A., **Abdullah, A.M.**, Razak, S.I.A. (2021) A Review of current trends of polymers in orthodontics: BPA free and smart materials. *Polymers*, 13(9), 1409
4. Radhi, A., Mohamad, D., Rahman, F.S.A., **Abdullah, A. M.**, Hassan, H. (2021). Mechanism and factors influence of graphene-based nanomaterials antimicrobial activities and application. *Journal of Materials Research and Technology*, 11, 1290-1307. (**Q1, Impact Factor: 5.289**)
5. Sheng, S. B., **Abdullah, A. M.**, Omar, M., Mohamad, D. (2020). Cytotoxicity and cell adherence evaluation of 3D orbital polyamide composite customized implant. *Malaysian Journal of Microscopy*, 16(1), 17-27. (**Scopus indexed**)

6. Hamad, W. N. F. W., **Abdullah A. M.**, Mohamad, D. (2020). Tensile and shrinkage evaluation on newly developed β -TCP/ZnO filled PMMA for craniofacial reconstruction. *Malaysian Journal of Microscopy*, 16(1), 141-149. (**Scopus indexed**)
7. Abdullah, J. Y., **Abdullah, A.M.**, Hadi, H., Husein, A., Rajion, Z. A. (2019). Comparison of STL skull models produced using open-source software versus commercial software. *Rapid Prototyping Journal*, 25, 1585-1591. (**Q1, Impact Factor: 3.099**)
8. Rahim, T. N. A. T., **Abdullah, A.M.**, Akil, H.M. (2019). Recent Development in Fused Deposition Modeling- Based 3D Printing of Polymers and Their Composites. *Polymer Reviews*, 59(4) 589-624. (**Q1, Impact Factor: 7.304**)
9. Hueh, L.P., Abdullah, J.Y., **Abdullah, A.M.**, Yahya, S., Idris. Z., Mohamad, D. (2019) Patient- Specific Reconstruction Utilizing Computer Assisted 3D Modelling for Partial Bone Flap Defect in Hybrid Cranioplasty. *Journal of Craniofacial Surgery*, 30(8) e720-e723 (**Q4, Impact Factor: 0.953**)
10. **Abdullah, A. M.**, Rahim, T. N. A. T., Mohamad, D., Akil, H. M. & Rajion, Z. A. (2019) Effect of Narrow Infill Density Gap on the Compressive Properties of 3D Printed Carbon Fibre Reinforced Acrylonitrile Butadiene Styrene. *Journal of Mechanical Science and Technology*, 33, 2339-2343 (**Q3, Impact Factor: 1.345**)
11. **Abdullah, A.M.**, Mohamad, D., Rahim, T.N.D.T., Akil, H.M., Rajion, Z.A. (2019) Enhancement of thermal, mechanical and physical properties of polyamide 12 composites via hybridization of ceramics for bone replacement. *Materials Science and Engineering C*, 99, 719-725 (**Q1, Impact Factor: 5.880**)
12. **Abdullah, A.M.**, Mohamad, D., Din, T.N.D.T., Yahya, S., Akil, H.M., Rajion, Z.A. (2019) Fabrication of nasal prosthesis utilizing an affordable 3D printer. *The International Journal of Advanced Manufacturing Technology*, 100, 1907-1012 (**Q2, Impact factor: 2.633**)
13. **Abdullah, A. M.**, Rahim, T. N. A. T., Hamad, W.N.F.W., Mohamad, D., Akil, H. M. & Rajion, Z. A. (2018). Mechanical and cytotoxicity properties of hybrid ceramics filled polyamide 12 filament feedstock for craniofacial bone reconstruction via fused deposition modelling. *Dental Materials*, 34, e309-e316 (**Q1, Impact Factor: 4.495**)
14. Rahim, T. N. A. T., **Abdullah, A. M.**, Akil, H. M., Mohamad, D. & Rajion, Z.A. (2017). Optimization of 3D Printing Parameters On Dimensional Accuracy and Surface Finishing for New Polyamide 6 and Its Composite Used in Fused Deposition Modelling Process. *Journal of Mechanical Engineering (Scopus indexed)*
15. Rahim, T. N. A. T., **Abdullah, A. M.**, Akil, H. M., Mohamad, D. & Rajion, Z.A. (2017). The Improvement of Mechanical and Thermal Properties of Polyamide 12 3D Printed Parts by Fused Deposition Modelling. *Express Polymer Letters*, 11, 963-982 (**Q2, Impact Factor: 3.083**)
16. **Abdullah, A. M.**, Rahim, T. N. A. T., Mohamad, D., Akil, H. M. & Rajion, Z. A. (2017). Mechanical and Physical Properties of Highly ZrO₂ / β -TCP Filled Polyamide 12 Prepared via Fused Deposition Modelling (FDM) 3D Printer for Potential Craniofacial Reconstruction Application. *Materials Letters*, 189, 307-309 (**Q2, Impact Factor: 3.204**)
17. **Abdullah, A. M.**, Tengku Din, T. N. D., Mohamad, D., Rahim, T. N. A. T., Akil, H. M. & Rajion, Z. A. (2016). Surface topography study of prepared 3D printed moulds via 3D printer for silicone elastomer based nasal prosthesis. *AIP Conference Proceedings*, 1791, 020013-1-020013-5 (**Scopus indexed**)
18. Rahim, T. N. A. T., **Abdullah, A. M.**, Akil, H. M., Mohamad, D. (2016). Comparison of mechanical properties for polyamide 12 composite-based biomaterials fabricated by fused

filament fabrication and injection molding. *AIP Conference Proceedings*, 1791, 020007-1-020007-9 (**Scopus indexed**)

19. Hamad, W. N. F. W., **Abdullah, A.M.**, Mohamad, D. (2016). Effect of zinc oxide on flexural and physical properties of PMMA composites. *AIP Conference Proceedings*, 1791,020014 -1-020014-4 (**Scopus indexed**)

20. Hueh, L. P., Abdullah, J.Y., **Abdullah, A.M.**, Yahya, S., Idris, Z., Mohamad, D. (2016). Patient- specific reconstruction utilizing computer assisted 3D modelling for partial bone flap defect in hybrid cranioplasty. *AIP Conference Proceedings*, 1791,020020 -1-020020-6 (**Scopus indexed**)

21. Din, T.N.D.T., Jamayet, N., Rajion, Z.A., Luddin, N., Abdullah, J.Y., **Abdulah, A.M.**, Yahya, S. (2016). Design and fabrication of facial prostheses for cancer patient applying computer aided method and manufacturing (CAD/CAM). *AIP Conference Proceedings*, 1791,020003 -1-020003-7 (**Scopus indexed**)

22. **Abdullah, A. M.**, Mohamad, D., Rahim, T. N. A. T., Akil, H. M. & Rajion, Z. A. (2015). 3D printer's parameter optimization for potential patient specific implant fabrication. *Jurnal Teknologi*, 76(7), 75-79 (**Scopus indexed**)

23. Rahim, T. N. A. T., Akil, H. M., **Abdullah, A. M.**, Mohamad, D. & Rajion, Z. A. (2015). Mechanical and Morphological Properties of Polyamide 12 Composite for Potential Biomedical Implant: Injection Molding and Desktop 3D Printer. *Jurnal Teknologi*, 76(7), 69-73. (**Scopus indexed**)

24. Rahim, T. N. A. T., **Abdullah, A. M.**, Akil, H. M., Mohamad, D. & Rajion, Z. A. (2015). Preparation and characterization of a newly developed polyamide composite utilising an affordable 3D printer. *Journal of Reinforced Plastics & Composites*, 34(19), 1628-1638 (**Q2, Impact Factor: 1.987**)

25. **Abdullah, A. M.**, Rahim, T. N. A. T., Mohamad, D., Akil, H. M. & Rajion, Z. A. (2014). Fabrication and Evaluation Of Polyamide Composite As a Potential Biomaterial For Tissue Engineering Application: A Preliminary Study. *Regenerative Research*, 3(2), 62-64.

JOURNALS (ACCEPTED)

1. **Abdullah, A. M.**, Mohamad, D., Akil, H. M., Abdullah, N. A. Mechanical and morphological properties of carbon fibre and its composites for biomaterials application. *Applied Nanoscience* (**Q3, Impact Factor: 2.880**)

REVIEWING ARTICLES IN ACADEMICS JOURNALS

1. Reviewer for manuscript # CER-D-17-02305/R1/R2/R3 for the *Ceramics International*
2. Reviewer for manuscript # MEST-D-18-00205 / R1 for the *Journal of Mechanical Science and Technology*
3. Reviewer for manuscript # MEST-D-19-00240 for the *Journal of Mechanical Science and Technology*
4. Reviewer for manuscript # MEST-D-19-00935 for the *Journal of Mechanical Science and Technology*

5. Reviewer for manuscript # MEST-D-19-01019 for the Journal of Mechanical Science and Technology
6. Reviewer for manuscript # MEST-D-19-01513 for the Journal of Mechanical Science and Technology
7. Reviewer for manuscript # MEST-D-19-01951 / R1 for the Journal of Mechanical Science and Technology
8. Reviewer for manuscript # MEST-D-20-00145 / R1 for the Journal of Mechanical Science and Technology
9. Reviewer for manuscript # MNL-2019-0670 for the Micro & Nano Letters

AWARDS

1. Publication Achievement Award at **Majlis Persada Kencana** 2020, USM.
2. Certified Graduate on Time by Institute of Post Graduate Studies, USM (23 July 2020)
3. Sanggar Sanjung Award for publication in top journal at **Majlis Persada Kencana** (17 Oct 2019), Dewan Budaya, USM. Event organized by Institute of Post Graduate Studies, USM.
4. Prestigious External Award at **Majlis Persada Kencana** (17 Oct 2019), Dewan Budaya, USM. Event organized by Institute of Post Graduate Studies, USM.
5. Silver Award for innovation of **A Novel Computer Aided Reconstruction in Hybrid Cranioplasty**, International Conference and Expositions on Inventions By Institutions of Higher Learning (Pecipta' 19), Universiti Tun Huseein Onn Malaysia.
6. Silver Medal for innovation of **Patient Specific Implant Hybrid Cranioplasty**, International Innovation, Invention and Technology Exhibition 2019 (iTEX 2019), Kuala Lumpur Convention Centre.
7. Best oral presenter for biomaterials category at **International Conference of Asia Pacific Association of Surgical Tissue Banks** (APASTB 2018) (27-30 August 2018), Hotel Bangi-Putrajaya.
8. Silver Medal for innovation of **3D-Craniofacial PolyAmide Composite Customised Implant** (3D-CPACC Implant), International Innovation, Invention and Technology Exhibition 2018 (iTEX 2018), Kuala Lumpur Convention Centre.
9. 2nd best poster presentation at **2nd Postgraduate Research Day 2018**. Event organized by School of Dental Sciences, USM.
10. Best Master Thesis Award at **Majlis Persada Kencana** (19 Dec 2017), Dewan Budaya, USM. Event organized by Institute of Post Graduate Studies, USM.
11. USM Fellowship Award (PhD) 2017/2020, awarded by Institute of Post Graduate Studies, Universiti Sains Malaysia.
12. Outstanding reviewer – **Ceramics International**, awarded by Elsevier (May 2017)
13. Graduate Research Assistantships 2017, awarded by Institute of Post Graduate Studies, Universiti Sains Malaysia.

14. Best oral presenter in Medical devices and Implant section, **Translational Craniofacial Conference** (9-11 August 2016), Organized by Advanced Medical and Dental Institute, USM.

15. Gold Medal for innovation of **3D-Orbital PolyAmide Composite Customised Implant** (3D-OPACC Implant), Research Innovation Symposium and Exposition (RISE 2015), UiTM Shah Alam.

THESIS / DISSERTATION

1. Preparation and Characterization of 3D Printed Polyamide 6 Composites for Craniofacial Reconstruction, PhD Thesis, Universiti Sains Malaysia, June 2020.

2. Preparation and Characterization of Polyamide 12 Composites for Craniofacial Reconstruction Utilizing Additive Manufacturing, Master Thesis, Universiti Sains Malaysia, October 2016.

3. Effect of Preparation Condition of AgSbO₃ on Thermoelectric Properties of CuO Added AgSbO₃ Ceramics, Undergraduate Thesis, Chiba University, 2006.

GRANT

1. Dana Inovasi Awal (USM) – Validation of Dimensional Accuracy Of 3D Printed Craniomaxillofacial Implant Based on Open-Source Generated 3D Imaging (RM 24,000), Completed (Co- Researcher).

2. Industrial Grant (Roxhana Ventures Sdn Bhd) – Effect of Processing Parameters on Physico-Chemical and Biological Properties of Goose Bone Nanoparticles (RM 95,000), On-going (Co- Researcher).

3. FRGS 2021 (USM) – The effects of 3D printed polyamide 12 composite pores on osteogenic and angiogenic differentiation (RM 129,050), On Going (Co-Researcher)

F. REFERENCES

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