



# Ahmed Faraj Ibrahim Hissen Edhirej

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## Work experience

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Faculty of Mechanical Engineering, Higher poly technique institute Sabha, Libya.	1999 — 2005
Assistant lecturer	
Bradford university	2006 — 2008
MSc Student	
Faculty of Mechanical Engineering, Higher poly technique institute Sabha, Libya.	2008 — 2013
Lecturer	
UPM	2014 — 2018
PhD student	

## Qualifications

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Bachelor degree on July 1999 in Production machines, Faculty of Mechanical Engineering, Higher poly technique institute Sabha, Libya.  
MSc Program in the field of Advanced Material Engineering at the Bradford University, UK. In 2007  
PhD in the field of material engineering at the faculty of mechanical and manufacturing engineering , University Putra Malaysia. In 2018.

## Interests

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Material Engineering- Bio-composite- Bio-polymers- Composite materials. Materials characterizations

## References

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### LIST OF PUBLICATIONS

#### Journal articles

- 1.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. (2015). Cassava: Its polymer, fiber, composite, and application. *Polymer Composites*, DOI: 10.1002/pc.23614.
- 2.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. (2015). Extraction of Malaysian cassava starch, peel and bagasse

and its characterization. *Journal of Food science and technology* , JFST-D-15-01789R2.

- 3.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. (2017). Effect of various plasticizers and concentration on the physical, thermal, mechanical and structural properties of cassava starch based films. *Starch*, 69.1-2.
- 4.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. (2016). Preparation and characterization of casava starch/peel composite film. *Polymer Composites*, DOI: 10.1002/pc.24121
- 5.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. (2017). Preparation and characterization of casava bagasse reinforced thermoplastic cassava starch. *Fibers and Polymers* 18.1: 162-171.
- 6.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. (2017). Cassava/sugar palm fiber reinforced cassava starch hybrid composites: physical, thermal and structural properties. *International journal of biological macromolecules*. 1;101:75-83.
- 7.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. (2017). Tensile, barrier, dynamic mechanical and biodegradation properties of cassava/sugar palm fiber reinforcedncassava starch hybrid composites. *BioResources*, 12(4), pp.7145-7160.

#### **Conferences/Seminars**

- 1.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. Application of cassava and cassava composites. Postgraduate Symposium on Bio-composite Technology 2015, Faculty of Engineering, University Putra Malaysia, 3rd March, 2015.
- 2.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. Effects of various plasticizers and concentration on physical properties of cassava films. Postgraduate Symposium on Biocomposite Technology 2015, Faculty of Engineering, Universiti Putra Malaysia, 3rd March, 2015.
- 3.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. Effect of cassava peel and cassava bagasse natural filler on mechanical properties of thermoplastic cassava starch: Comparative study. Advanced Material Conference. Langkawi, Malaysia. 28-29 November 2016.
- 4.Edhirej, A., Sapuan, S. M., Jawaid, M., & Zahari, N. I. Effect of cassava peel and cassava bagasse natural filler on physical properties of thermoplastic cassava starch: Comparative study. 5<sup>th</sup> Postgraduate Simenar. INTROP. UPM. Malaysia. 28 December 2016.

#### **Award**

The best paper on the 5thPostgraduate Simenar. INTROP. UPM. Malaysia. 28 December 2016.

## **Software skills**

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Word: Excellent

Excel: Very Good

PowerPoint: Very Good

Solidwork: Good