AHMAD IRFAAN QAWIEM BIN DICKSON AHMAD ZAIDI

SL 173, Lorong Samarindah 17, Taman Samarindah Fasa 2, 94300 Kota Samarahan, Sarawak

Phone: +601112003693 | Email: ibnuahmad1993@gmail.com | IC No: 931201-13-5207



Education



Interest

- Interest in engineering design and creating machine mechanism.
- Quality control of a production.
- Computational fluid dynamics simulation.
- Special interest in material engineering and manufacturing technology research.
- Research of ergonomic and biomechanical systems.
- Contamination control.

Skills

Computer Skills

- Good computer technology literacy.
- **CAD Software**: SolidWorks, AutoCAD (Level: Intermediate)
- **CFD Software**: ANSYS Fluent (Level: Intermediate)
- Microsoft Excel, Word, PowerPoint, Visio (Level: Good)
- AnyBody Modeling System (AMS) A software related to ergonomics, biomechanics, and medical analysis. (Level: Intermediate)
- **Graphic Design Software**: Adobe Photoshop and Illustrator (Level: Beginner)
- **Programming Languages**: MATLAB matrix based software (Level: Intermediate)

Personal Strength

- Good knowledge in fluid mechanics, thermodynamic and mechanic of materials.
- In-depth knowledge in liquid particle count (LPC) for contamination control.

Technical Skills

- Operating lathe machine.
- Milling machine
- Handling liquid particle counter machine(CLS-700)
- Laptop/PC maintenance and repair

Languages Proficiency

Malay

Spoken: Fluent

Written: Excellent

English

Spoken: Good

Written: Excellent

Japanese

Spoken: Basic

Written: Basic





Working Experience

Polish Engineer Executive Western Digital – HGST (SL1M)

05/2017 - Current Kuching, Sarawak

- Preparing equipment operation and troubleshooting procedure.
- Project coordinator of piping installation jobs.
- Responsible for troubleshooting High Pressure Wash (HPW) Standalone machine (HPW is a machine that provide deionized water for polishing machines for cleaning purposes).
- Monitor and analyze liquid particle count reading before machines release for production purposes.
- Responsible for polishing machine sustainability and preventive maintenance.
- Preparing machine checklist.

Project Done

- Musculoskeletal analysis of traction therapy for the treatment of low back pain. (Using AnyBody Modeling System) – Year 2016
 - Investigating the lumbar part of spine (L1-L5 vertebrae)
 - Study the effect of traction to the biomechanical of lumbar spine.
 - Proved the effectiveness of traction therapy.
- 2. Automated Production of Sarawak Layer Cake Year 2016
 - Responsible in analyzing the effect of cooling and pressing of Sarawak Layer Cake making process.
 - Design cooling and pressing automatic mechanism (using SOLIDWORKS).
 - Selecting appropriate and suitable material for food and beverage industry.
 - Designing the conveyor system for product transport.
 - Finite element analysis of machine part design.
 - Experiment of machine mechanism (making machine part prototype).
- 3. Simulation of bearing design using ANSYS Fluent Year 2016
- 4. Investigating the behavior/tendency of drivers with traffic light (Red, Amber, Green). Year 2016
 - Preparing the control chart for the study.

Achievements/Awards

Achievements	Year	Remark
Participate in Innovation Technology Expo	2016	Bronze medalist for the invention of Malaysian
(InTEX) 2016 at DeTAR Putra, UNIMAS		Musculoskeletal Models for Biomechanics Analysis
Dean List Award Semester 8	2016	Dean List
Dean List Award Semester 3	2013	Dean List
Asasi UNIMAS Sport Day	2011	Badminton sport executive/Match umpire
Asasi UNIMAS Sport Day	2011	Chess game participant (5 th place overall)
2010 MSS Betong Chess Championship	2010	Participant
2009 MSS Betong Chess Championship	2009	U-18 individual 5 th place/team champion
2009 MSS Sarawak Chess Championship	2009	Participant
2008 MSS Betong Chess Championship	2008	Participant/team champion
2008 MSS Sarawak Chess Championship	2008	Participant
2007 MSS Betong Chess Championship	2007	U-15 individual 1st place/team champion

References

Noor Aliah Bt Abd Majid

Final Year Project Supervisor/Lecturer

Department of Mechanical and Manufacturing
Engineering

Phone: +60174880720 (HP) / +6082583212 (Office)

Email: amnaliah@unimas.my

Chong Kah Hiung

Supervisor during SL1M Training
Western Digital Corporation
Polish Department

Phone: +60138086198

Email: kahhiung.chong@wdc.com