

ABU UBAIDAH AMIR BIN AB MAALEK

 ubAI6689 |  linkedin |  aua.maalek@gmail.com |  +601123560027

SUMMARY

I am a highly skilled technical professional with a solid foundation in Physics and extensive experience in both academic and industrial environments. Currently, I excel in operational support and technical roles, including the provision and maintenance of weather forecast systems for oil and gas clients. My work at Akirakan Marine Technology Sdn Bhd involves critical system operations, technical support, and high-volume email dissemination. In my previous freelance role at Atlas Informatics PLT, I played a pivotal role in developing and integrating the National Flood and Forecast Warning System (NaFFWS) and the Malaysia Impact Based Forecast (MyIBF) system, underscoring my expertise in system integration, web development, and server maintenance. My experience also extends to operational roles such as monitoring national flood warning systems and developing software applications for agricultural and environmental purposes.

During my tenure at the National Centre for Particle Physics, University of Malaya, I handled administrative duties and facilitated collaborations with international institutions such as CERN and KEK. I have a proven track record in managing complex projects, providing technical support, and engaging in research initiatives, including my work with the Belle2 and CMS experiments. .

My ability to operate independently, take initiative, and solve complex problems makes me a valuable asset to any technical team. I am dedicated to continuous learning and actively participate in hackathons and knowledge-sharing activities within the science and technology community.

WORK EXPERIENCE

Akirakan Marine Technology Sdn Bhd (Operational Support) Feb 2024 - Present

- **Weather Forecast System Operation and Maintenance:** Providing weather forecast reports to oil and gas clients. Monitoring IT infrastructure and applications to ensure optimal performance and availability. Performing regular system checks and maintenance tasks to prevent issues. Implementing and manage system updates, patches, and backups.
- **Technical Support:** Providing technical support to internal teams and end-users, resolving software issue promptly.
- **Documentation:** Maintain accurate records of system configurations, procedures, and troubleshooting steps. Update technical documentation and user guides as needed.
- **Dissemination:** Managing high volume email disseminations to ensure the weather forecast reports reach clients according to the schedule.

Atlas Informatics PLT (Freelance IT Engineer) Aug 2022 - Jan 2024

- Actively involve in the development and integration of the National Flood and Forecast Warning System (NaFFWS) for the Department of Irrigation and Drainage (JPS) Malaysia.
- Developing the operational dissemination (ODP) platform of MyIBF (Malaysia Impact Based Forecast) system for JPS.
- Assisting the Department of Agriculture (DoA) to build a website and API(s) for an evapotranspiration calculator application.
- Assisted during the 2022 MTL (Monsoon Timur Laut) operation, a yearly 24/7 operation run by JPS to monitor nationwide flood, especially on the east coast of the Semenanjung.
- Part of the maintenance team for the National Flood Forecasting and Warning System (NaFFWS) Legacy System servicing the Department of Irrigation and Drainage.

- National Centre for Particle Physics, UM (Project Officer)** Mar 2019 - Mar 2021
- Responsible for the administrative aspect of the Centre. Managing grants and fundings. Conducting events (e.g. outreach, exhibition, short course, etc) for the Centre.
 - Contact person for the international counterparts of NCPP from various particle physics institutions around the globe (e.g. CERN (Switzerland), KEK (Japan), DESY (Germany))
 - MSc candidate for the centre involved with the Belle2 and CMS experiments.
- Perunding Iltizam Sdn Bhd (Control Room Engineer)** Oct 2017 - Oct 2018
- Operator for the National Flood Forecast and Warning System (NaFFWS) stationed at the Department of Irrigation and Drainage (JPS) Ampang.
 - Conducting daily monitoring and reporting to ensure the system was up and running.
 - Softwares: InfoWorks ICM, Oracle VirtualBox, Linux OS.
- CERN, Switzerland (Intern)** Jun 2017 - Aug 2017
- Physics intern in the Beam, Radiation, Illumination, and Luminosity (BRIL) group of CMS, CERN.
 - Project title: Finding Multiple Peaks Signal in Fast Beam Conditions Monitor (BCM1F)
- National Centre for Particle Physics, UM (Research Assistant)** Nov 2016 - Feb 2017
- Involved in particle physics researches in collaboration with the Belle2 experiment (KEK, Tsukuba, Japan)
 - Installed and configured the Belle II Analysis Software Framework (BASF2) in the University of Malaya's DICC servers and local machines.
 - Running simulation for the study of angular analysis of the production of B-meson at Belle2.

EDUCATION

2010 - 2015 BSc (Physics) at **University of Malaya**
2007 - 2008 Life Science Foundation at **Pusat Asasi Sains, UM**
2002 -2006 SPM at **Sekolah Menengah Sains Tengku Muhammad Faris Petra**

SKILLS

Programming Languages	C++, Python, JavaScript
Data Analysis	ROOT (C++), Pandas, Numpy, Matplotlib, Scikit-learn, Jupyter Notebook
Virtualization	Docker, VirtualBox
Front-end	Back-end
Django	
Dashboarding	Grafana, Prometheus
Version Control	Git, GitHub, GitLab
Database	MySQL, MongoDB, InfluxDB
Image Processing	OpenCV
Remote Access	SSH, RDP
Operating System	Linux, Windows