

# ABU UBAIDAH AMIR BIN AB MAALEK

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## SUMMARY

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A competent technical person with a background in Physics, I have consistently demonstrated my ability to execute tasks in both academic and industrial settings. In my current role, I'm working side by side with the Department of Irrigation and Drainage, actively involve in the development and integration of the National Flood and Forecast Warning System (NaFFWS) and Malaysia Impact Based Forecasting (MyIBF), showcasing my proficiency in system integration, web development, server maintenance, and operational tasks. Previously at the National Centre for Particle Physics, University of Malaya, I managed administrative operations while contributing to international collaborations such as CMS at CERN and Belle 2 in Japan. Outside of my primary responsibilities, I actively engage in hackathons and knowledge transfer in the fields of science and technology. My key strength lies in my capability to act independently, take initiative, making me an effective problem-solver in any technical team.

## WORK EXPERIENCE

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### Atlas Informatics PLT (Freelance IT Engineer)

Aug 2022 - present

- 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

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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

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Programming Languages	C++, Python, JavaScript
Data Analysis	ROOT (C++), Pandas, Numpy, Matplotlib, Scikit-learn, Jupyter Notebook
Virtualization	Docker, VirtualBox
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