



Julisa Bana Abraham

DOB: July 20, 1994

Height | Weight: 170 cm | 62 kg

CONTACT

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“Analytical, emphatic, and eager learner engineering physics fresh graduate”

WORK EXPERIENCE

PT. Spektra Megah Semesta

February 2016 — March 2016

Intern

Established in 1996, PT. SPEKTRA MEGAH SEMESTA is a privately owned, independent corporation dedicated to excellence in material quality control, Inspection services, non-destructive testing, hydrostatic testing services and PSV's laboratory services. Those commitments are the key to SMS track record of success in the world of international business. As an intern I had learned many NDT techniques such as magnetic testing, penetration testing, ultrasonic testing, and radiographic testing to ensure system integrity and quality.

KULIAH KERJA NYATA

June 2015 — August 2015

Volunteer

KKN is a graduation requirement of UGM students. The purpose of KKN is to help solving the national problem including poverty, unemployment, poor area/district, and discrepancy in society. I was an event leader of the Independence Day annual event that colloquially known as tujuhbelasan in Indonesia. I was responsible for conducting what event should be carried out and organize them properly based on the local culture.

QUALIFICATIONS

IT

I am skilled in some programming languages such as C++, Python (5th percentile in hackerrank algorithm), MATLAB, Ruby. I have appropriate knowledge about Linux based system administration including shell scripting and basic computer networking. I am able to conduct penetration testing with appropriate tools that provided in Kali Linux distribution (Have a Penetration Testing and Ethical Hacking certificate from cybrary.it) also I am able to create a python script and shell script for conducting penetration testing.

Engineering

I am familiar with many engineering skills such as Computer Aided Design (CAD) with AutoCAD, Solidworks, and CATIA, Electrical design and Simulations with MultiSim, Computational Fluid Dynamics (CFD) with ANSYS Fluent, Programmable Logic Controller (PLC) with Unity Pro XL, Supervisory control and data acquisition (SCADA) with Vijeo Citect (both PLC and SCADA were certified by UGM-Schneider Electric Training center), Nuclear reactor accident analysis with RELAP5-3D

Finance

I understand about the concept of personal finance, basic accounting, security analysis, and macroeconomics. (With edX-Purdue University certification)

EDUCATION

Modicon M340 Programmable Logic
Controller and Vijeo Citect SCADA Training
Universitas Gadjah Mada - Scheneider Electric

13 March 2017 — 16 March 2017

Departement of Engineering Physics
Sarjana Teknik (S.T) (Bachelor of Engineering)
Universitas Gadjah Mada
Majoring in Nuclear Engineering with GPA 3.04 out of 4.0

September 2012 — March 2017

Pelatihan Radiokimia
Pusdiklat Badan Tenaga Nuklir Nasional

30 November - 4 Desember 2015

RELEVANT EDUCATION AND COURSE WORK

- Artificial Intelligence (87%)
- Computational Methods (87%)
- Numerical Methods (75%)
- Thermodynamics (100%)
- Engineering Economics (87%)
- Signals and Systems (87%)

INTERESTS

- **Finance**, I'm interested in finance especially about investing. The idea about putting money in someone else business and watching it grow is very compelling. I have learned about investing philosophies such as fundamental and technical analysis
- **Cyber security**, I'm learning about cybersecurity as protection, because recently almost anyone can compromise a weak or out-dated system. I have learned many penetration testing techniques that usually used to compromise a system.
- **Basketball**, because it's fun and competitive. I'm playing as a point guard who's responsible for distributing the ball the best way possible and assessing the situation.
- **Reading**, as Warren Buffett said "read 500 pages every week. That's how knowledge builds up, like compound interest." So I read to gain more knowledge, I think it's necessary to gain knowledge as much as possible to attain a better future.
- **Data Mining and Machine Learning**, anything that can be perceived is data, that makes data science is so powerful and intriguing.

LANGUAGES

Native Javanese and Indonesian, proficient in English (324 UGM AcEPT score equivalent to 550 TOEFL ITP score).

ORGANIZATION

Kommun (Komunitas Muda Nuklir) is a non-profit research community about nuclear technology socialization. As an R&D team, I am responsible for providing recent information about nuclear technology.

UKM (Unit Kegiatan Mahasiswa)-Tennis I was drafted into first string team in 2012, as a first string team, I was responsible for mentoring lower string team and practicing for upcoming competition.

MinOR (Komunitas Mahasiswa Riset Nuklir Reaktor) as the name implies, it's a study group for nuclear reactor, I learned much about any type of nuclear reactor technology and design there.

PERSONAL PROJECTS

GitHub: <https://github.com/banaabraham>

- Created some cyber security tools including SMB, FTP, SSH, web directory scanner, web scraper and system security scanner with python programming language
- Created various code using python programming language related to stock price analysis and portfolio analysis.
- Created banaabraham.github.io

Thesis:

Thermalhydraulic Analysis of Silicon Carbide and Zirconium Alloy as Cladding Material for Pressurized Water Reactor (PWR) During Large Break Loss of Coolant Accident (LBLOCA) In RELAP5-3D

