RESUME

Personal Details

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Educational Background

1) **MULTIMEDIA UNIVERSITY (MMU CYBERJAYA)**

Programme : Bachelor of Engineering (Honours) Electronics majoring in Optical Engineering.
Completion : 2015 (October)
CGPA : 2.54/4.00

2) **MULTIMEDIA UNIVERSITY (MMU CYBERJAYA)**

Programme : Foundation in Engineering
Completion : 2009 (June)
CGPA : 3.06/4.00

3) **SEKOLAH MENENGAH KEBANGSAAN BANTING (SMKB) TELOK DATOK, BANTING.**

Programme : Sijil Pelajaran Malaysia (SPM)
Completion : 2004(December)
Score SPM : 2A, 4B, 3C and 2D
Score PMR : 2A, 2B, 3C and 1D

4) **SEKOLAH RENDAH JENIS KEBANGSAAN (TAMIL)**

Programme : Ujian Pencapaian Sekolah Rendah (UPSR)
Completion : 1999
Score UPSR : 1A, 3B and 3C

Relevant Course Subjects

Electrical and Electronics

- Electronics I,II,III
- Physical Electronics
- Instrumentation & Measurement
- Techniques
- Digital Logic Design
- Circuit Theory
- Circuit's and Signals
- Introduction to Machines & Power Systems
- Control Theory

Telecommunication and Networking

- Data Communications & Computer Networking
- Analogue and Digital Communications
- Digital Signal Processing
- Field Theory
- Electromagnetic Theory

Mathematics, Language and Skills

- Engineering Mathematics I,II,III, IV
- Spanish for Beginners
- Workplace Communication
- Engineer and Society
- Law for Engineers
- Moral Studies

Computer and Programming

- Computer and Program Design
- Algorithms and Data Structures
- Computer Organization & Architecture
- Microcontroller and Microprocessor
- Multimedia technology and Applications
- Advanced Microprocessors

Technical Skills

Optical Communication (MAJOR)

- Fundamental of Optics
- Optoelectronics Devices
- Optical Metrology and Testing
- Optical Signal Processing
- Optical Communication System
- Optical Waveguide and Devices
- Laser Technology and Applications

Programming Languages

- C and C++ programming using **KNOPIX** window platform
- Assembly Language Programming

Engineering Software

- Matlab 7
- OrCad Pspice
- AutoCad 7, AutoCad 2014 & 2015

Optical software

- Optsim 4.0
- OptiSystem 11

Document Software

- Microsoft word
- Microsoft Excel
- Microsoft PowerPoint

Engineering Equipment Skills

1. Multimeter
2. Oscilloscope
3. Spectrum Analyzer
4. Function Generator
5. Amplifier Probe
6. Optical Spectrum Analyzer
7. Raman Pump Unit (RPU)
8. Tuneable Laser Source (TLS)
9. JDU MTS-6000 Compact Optical Modulator Platform
10. Able to repair or diagnose electric circuits using continuity test or appropriate component testing method.

Language Skills

1. Written and spoken English-**Fluent**
2. Written and spoken Malay-**Fluent**
3. Written and spoken Tamil-**Fluent**
4. Written and spoken Spanish-**Basic**

Final Year Project (FYP)

Multiwavelength Brillouin-Raman Fiber Laser (MBRFL)

The demand for higher data rate transmission is increasing rapidly for new broadband services. Various applications such as videoconference, fastest Internet broadband services and videophones have rapidly energized the volume of data exchanged in entire world. The dense wavelength division multiplexing

(DWDM) technology is quite an advance technology for various communication systems where bandwidth cost is reduced by dedicating optical signal to different wavelength in an optical fiber. The DWDM system requires multi-wavelength laser source with equal and constant wavelength spacing. In this DWDM technique, information or data is carried by each different and distinct wavelength, also called as channels. The individual channel can be created by a single laser diode of slightly different wavelength. However, this is not really economical as the price of individual laser diode is expensive. An alternative method is to use a multiwavelength fiber laser. Several techniques was demonstrated by researchers to improve the brillouin fiber laser (BFL) to combine with Raman amplification and this laser are addressed as Brillouin-Raman fiber laser (BRFL).

Other Projects

1. **Low cost Spectrophotometer for Nanoparticles based Thin Film** (Optical part Spectrophotometer)
2. **Base Number Converter using assembly language programming.** (Number conversion from decimal, binary, octal and hex using x86 architecture.)

Working Experiences

1. **Industrial Training at Wire & Wireless Snd.Bhd**

Position : Trainee Engineer
Duration : 3rd March 2014 - 25th May 2014 (12 weeks)
Address : Second Floor, 1-03 Jalan Kenari 19A, Bandar Puchong Jaya, 47170 Puchong, Selangor.
Objectives: 1) Adopt to the dynamic working atmosphere
2) Apply the academic knowledge in managing workplace challenges.
3) Practise good ethical values and work conducts

2. **Sigmax eServices Sdn. Bhd**

Position : Image Processing (Staff)
Duration : Part time (Flexible time)
Objectives :1) To require a basic knowledge and ability to recognize product characteristics.
2) To identify and process images in different inventory Segmentation
3) To provide quality content and result.

3. **Ranger Network Sdn, Bhd**

Position : Project coordinator
Duration : December (2015) – currently working
Objectives : 1) Coordinate the incoming Maxis project according to Technical Proposal (TP).

2) Done Site Survey and prepare Technical proposal (TP) accordingly.
3) Prepare documentation accordingly to start work
4) Prepare Site Pack documentation accordingly After completion of work.

Key Values

- Highly motivated to learn new skills and adapt fast.
- Determined to put long hour's commitment to complete a given task.
- Passionate to innovate or solve new problems with great responsibility.
- Able to communicate clear and fluently.
- Ready to work within a team or independently.
- Willing to put hard work to serve best interest of the company.
- Resourceful, energetic, and competent in achieving goals to date.
- Dynamic and creative thinker.

References

Dr. Chang Yoong Choon
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