

Muhammad Naufal Bin Mansor
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Objective:

To contribute creative engineering skills and experience and collaborate with a team that enhances your organisation's success with the ability to be independent, multitask and solving problems that will benefit your organisation.

Experience:

Research Assistant, Universiti Malaysia Perlis, Kangar, Perlis. July 2009 until present.

- 1) Designing the gantry robot structure using CAD
- 2) Determining the workspace for the gantry robot
- 3) Designing and developing the mechanical structure of Gantry Robot system
- 4) Designing the BASIC Stamp Microcontroller at Gantry Robot system and Visual Basic for GUI (Graphical User Interface) system to control motion system and vision system via Computer.
- 5) Selecting the necessary motors and interface unit.
- 6) Integrating and testing the developed robot with vision system
- 7) Collaborate with other researchers by consulting on their hardware design specifically in circuit design, component selections, microcontroller selection and programming and troubleshoot.
- 8) Designing and fabricating hardware structure of a gantry robot for surveillance system.
- 9) Designing a real-time motion and color image processing software interfaces to interface a camera as well as a signal generating system to a computer.
- 10) Creating Artificial Intelligent model such as integration of image acquisition, processing and detection for mobile observation center for color recognition and motion association .
- 11) Writing publications for international conferences and journal publications.
- 12) Managing research grant's financial statement for purchasing equipments and providing tutorial and support for final-year degree students for their Final Year Project.
- 13) Assist lab by giving lecturing and providing tutorial for hands on lab.

Teaching experience, University Malaysia Perlis, Kangar, Perlis. July 2009 until present.

- 1) Developing a new teaching module
- 2) Writing training grants
- 3) Participation in student advisory meetings
- 4) Organizing student lecture series
- 5) Organizing lectures by outside speakers, if part of a formal course of instruction
- 6) Overseeing FYP thesis as Co supervisor
- 7) Mentoring any students with extra needs

Pertubuhan Peladang Kawaasan Lahar Bubu (Janitor), 30th January 2004 until 30th Jun 2005

- 1) Add new material to file records, and create new records as necessary.
- 2) Answer questions about records and files.
- 3) Assign and record or stamp identification numbers or codes in order to index materials for filing.
- 4) Eliminate outdated or unnecessary materials, destroying them or transferring them to inactive storage according to file maintenance guidelines and/or legal requirements.
- 5) Enter document identification codes into systems in order to determine locations of documents to be retrieved.
- 6) Find and retrieve information from files in response to requests from authorized users.
- 7) Keep records of materials filed or removed, using logbooks or computers.
- 8) Modify and improve filing systems, or implement new filing systems.
- 9) Perform periodic inspections of materials or files in order to ensure correct placement, legibility, and proper condition.
- 10) Place materials into storage receptacles, such as file cabinets, boxes, bins, or drawers, according to classification and identification information.
- 11) Scan or read incoming materials in order to determine how and where they should be classified or filed.

Siemens VDO Sdn Bhd (Technician), 30th January 2003 until 30th Jun 2003.

- 1) Troubleshoots, tests, and assembles electro-mechanical assemblies.
- 2) Assists in reworking, repairing, and modifying non-conforming equipment.
- 3) Basic skills on soldering and assembling of electro/mechanical devices.
- 4) Proficient in the use of multimeters, testers, and other basic instruments.
- 5) Ability to read, interpret blueprints, wiring diagrams, assembly prints, and parts lists.
- 6) General technical knowledge in fluid power technology, AC/DC circuits, and electro / mechanical devices.

Education:

Universiti Malaysia Perlis, Kangar, Perlis.
Master of Science (Hons) (Mechatronic Engineering)
2011

Universiti Malaysia Perlis, Kangar, Perlis.
Bachelor of Engineering (Hons) (Mechatronic Engineering)
2009

Politeknik Sultan Abd Halim Muadzam Shah.
Diploma of Engineering (Mechanical Engineering)
2004

Summary of Skills:

- Experience in research and development
- Hardware development (PCB, Embedded System, Electronic Circuitry)
- Hardware interfacing (USB, SPI, RS232)
- Hardware design (SolidWorks, Catia, AutoCAD, OrCAD Cadence)
- Developing systems software (MatLAB, LabVIEW, Visual Basic, C, Assembly, PLC)
- Developing applications software (GUI)
- Troubleshoot system problems
- Project management
- Creative, team player
- Highly motivated and good time organizer.
- Willing to learn and problem solver.
- Have initiative and curiosity

Research Interest

AI in Bioinformatics/Biomedical, Human Behaviour, Infant Recognition Modelling, AI for Service Engineering, AI for Software Engineering, AI for Ubiquitous Computing, AI for Maintenance Applications, AI Image Processing Tools (hardware/software) for medical aided, AI Programming Languages, AI Tools for Computer Vision and Speech Understanding, AI Tools for Multimedia, Cognitive Informatics, Data Mining and Machine Learning Tools, Heuristic and AI Planning Strategies and Tools, Image Understanding, Integrated/Hybrid AI Approaches, Intelligent System Architectures, Knowledge-Based/Expert Systems, Knowledge Management and Processing Tools, Neural Networks for AI, and Software Engineering for AI.

Research Grant

- (1) A Study on Real-Time Processing of Colour Video Images from Multiple Cameras under Unstructured Lighting Environment, 9003-00136, RM53,000, MOHE, 2008, Researcher
- (2) A Study of Infant Behaviour Using Facial Expression Analysis, FRGS/FASA/TAHUN/SKK/JPP/03/, RM53,000, MOHE, 2011, Researcher
- (3) “Swan” – Human Detecting Process in Image Processing for Home Security System, 9003-00295, RM75,000, MOHE, 2011, Researcher

Publications:

Books, monographs, book chapters, Lecture Notes and edited volumes

- [1] **Muhammad Naufal Mansor**, Bibi Intan Suraya Murat. (2011) “Vehicle Monitoring Using Vibration Characteristic”: LAP LAMBERT Academic Publishing. ISBN-13: 978-3-8443-2781-6.
- [2] **Muhammad Naufal Bin Mansor**, Sazali Yaacob, R. Nagarajan, M. Hariharan, Ruzairi Abdul Rahim (2011) “Patients Facial Expressions Analysis under Different Angle in Intensive Care Unit”: Progress in process tomography & instrumentation system Series 7, ISBN 978-967-354-181-2. Universiti Teknologi Malaysia
- [3] Nor Muzakkir Nor Ayob, Ruzairi Abdul Rahim, Mohd Hafiz Fazalul Rahiman, **Muhammad Naufal Mansor** (2011) “Radio-Frequency Identification (RFID) Application and Database Management”: Progress in process tomography & instrumentation system Series 7, ISBN 978-967-354-181-2. Universiti Teknologi Malaysia
- [4] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob (2011) “SWAN – Human Detecting Process in Image Processing for Home Security System”, Lecture Notes in Electrical Engineering Advances in Information Technology and Industry Applications, Vol 136, ISBN 978-3-642-26000-1. @ Springer-Verlag Berlin Heidelberg
- [5] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob, Azhan Zamire Mukhtar, Siti Fazlina Fauzi, Mohd Shafarudy Abu, Wan Zuki Azman Wan Ahmad, Wan Nurhadani Wan Jaafar, (2012) “LDA Classifier for Home Monitoring System”, Lecture Notes in Information Technology (ISSN: 2070-1918)
- [6] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob, Azhan Zamire Mukhtar, Siti Fazlina Fauzi, Mohd Shafarudy Abu, Wan Zuki Azman Wan Ahmad, Wan Nurhadani Wan Jaafar, (2012) “Smart Surveillance System Detection Using SVD- Based Feature Extraction”, Lecture Notes in Information Technology (ISSN: 2070-1918)

- [7] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2012) “Early Jaundice Detection Based On Principal Component Analysis Feature Extraction” in Progress in process tomography & instrumentation system Series 8, (ISBN 978-967-354-186-7) Universiti Teknologi Malaysia
- [8] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2012) “PCA - Based Feature Extraction for Preterm Birth Monitoring” in Progress in process tomography & instrumentation system Series 8, (ISBN 978-967-354-186-7) Universiti Teknologi Malaysia

International Journal

- [1] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, M.Hariharan: “Coma Patients Expression Analysis under Different Lighting using k-NN and LDA.” International Journal of Signal and Image Processing (IJSIP), Vol 1, No 4, pp, 249-254, Hyper Sciences, (2010)
- [2] **Muhammad Naufal Mansor**, Azrini binti Idris, Sazali Yaacob, R.Nagarajan, M.Hariharan: “Quantifying of Paraplegic Patient Facial Agitation based on Fuzzy k-NN,” Journal of Computer Technology and Application (JCTA), Vol 2, No 1, pp, 24-28, David Publication, (2011)
- [3] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, M.Hariharan: “Reckoning of Facial Grimacing Scheme for Patient Agitation in Critical Care” International Journal of Research and Reviews in Artificial Intelligence (IJRRAI), Vol 1, No 1, pp, 20-24, Science Academy Publisher, (2011)
- [4] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, M.Hariharan: “Patients Tremble Analysis under different Different Camera Placement in Critical Care” International Journal of Research and Reviews in Soft and Intelligence Computing (IJRRSIC), Vol 1, No 1, pp, 34-38, Science Academy Publisher, (2011)
- [5] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, M.Hariharan: “Patients Facial Expressions Analysis under different angle in Intensive Care Unit” Signal & Image Processing: An International Journal (SIPIJ), NnN Net Solution Private Ltd, accepted (2011)
- [6] Mohd Rizal Manan, **Muhammad Naufal Bin Mansor**, Mohd Hafiz Fazalul Rahiman, Sazali Yaacob, Ruzairi Abdul Rahim: “Quantifying Scheme for Detection Heterogeneous Phase in a Pipe Vessel” International Journal of Research and Reviews in Artificial Intelligent (IJRRAI), Vol 1, No 1, pp, 28-30, Science Academy Publisher, (2011)
- [7] M. Ridhwan Tamjis, **Muhammad Naufal Bin Mansor**, Paulraj M P, Sazali Yaacob, A. Nazri Abdullah, R.B Weng: “Performance Comparison of the Neural Network and K-Nearest Neighborhood Classifiers in Classroom Speech Intelligibility Prediction Application” International Journal of Research and Reviews in Artificial Intelligent (IJRRAI), Vol 1, No 1, pp, 11-15, Science Academy Publisher, (2011)

- [8] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob (2011) “Bandit Detection using Color Detection Method” in Journal Procedia Technology Elsevier (ISSN: 1877-7058) Vol 29, pp, 1259-1263.
- [9] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2011) “Preemies Birth Monitoring using Color Detection Method” in Journal Procedia Engineering Elsevier (ISSN: 1877-7058) Vol 29, pp, 1625-1630.
- [10] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2011) “Jaundice in Newborn Monitoring using Color Detection Method” in Journal Procedia Engineering Elsevier (ISSN: 1877-7058) Vol 29, pp, 1631-1635.
- [11] S., Yaacob, Junoh, A.K., Adnan, F., A.M., Saad, S.A., Yazid, N.M., Ghazali, N., Shakir, N.A.A., Muhamad, W.Z.A.W, **Mansor, M.N.** (2011) Allocation of Workers Intake Model Using Simulation Approach in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [12] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2011) “Clinical Infant Pain Assessment Monitoring” in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [13] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2011) “Clinical Infant Pain Assessment Monitoring Using k-NN Classifier” in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [14] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob, Azhan Zamire Mukhtar, Siti Fazlina Fauzi, Mohd Shafarudy Abu, Wan Zuki Azman Wan Ahmad, Wan Nurhadani Wan Jaafar, Farah Adibah Adnan (2011) “THOR” Thermal Imaging for Home Security System” in Applied Mechanics and Materials Journal (ISSN: 1660-9336)
- [15] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2012) “PCA- Based Feature Extraction and k-NN algorithm for Early Jaundice Detection” in Journal of Soft Computing and Software Engineering (ISSN: 2251-7545)
- [16] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh (2012) “PCA- Based Feature Extraction and LDA algorithm for Preterm Birth Monitoring” in Journal of Soft Computing and Software Engineering (ISSN: 2251-7545)
- [17] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Nurul Aida Amira Johari, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh, Jamluddin Ahmad (2012) “Automatic Infant

- anxiety Character with SVM” in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [18] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh, Jamluddin Ahmad (2012) “Study of quiver Infant level with LDA ” in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [19] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob, Azhan Zamire Mukhtar, Siti Fazlina Fauzi, Mohd Shafarudy Abu,Wan Zuki Azman Wan Ahmad, Wan Nurhadani Wan Jaafar, (2012)) “SVM Classifier for Automatic Surveillance System” in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [20] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob, Azhan Zamire Mukhtar, Siti Fazlina Fauzi, Mohd Shafarudy Abu,Wan Zuki Azman Wan Ahmad, Wan Nurhadani Wan Jaafar, (2012)) “Neural Network Classifier for Automatic Surveillance System” in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [21] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob, Azhan Zamire Mukhtar, Siti Fazlina Fauzi, Mohd Shafarudy Abu,Wan Zuki Azman Wan Ahmad, Wan Nurhadani Wan Jaafar, (2012)) “Home Security System Based on k-NN Classifier” in Journal Procedia Technology Elsevier (ISSN: 2212-0173)
- [22] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Sazali Yaacob, Azhan Zamire Mukhtar, Siti Fazlina Fauzi, Mohd Shafarudy Abu,Wan Zuki Azman Wan Ahmad, Wan Nurhadani Wan Jaafar, (2012)) “Smart Surveillance System Detection Using PCA- Based Feature Extraction” in Applied Mechanics and Materials Journal (ISSN: 1660-9336)
- [23] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Azrini Idris, Azhan Zamire Mukhtar, Siti Fazlina Fauzi,Wan Zuki Azman Wan Ahmad, (2012)) “Home Security System Based on Fuzzy k-NN Classifier” in Advanced Materials Research (AMR) Journal (ISSN: 1022-6860)
- [24] Ahmad Kadri Junoh, **Muhammad Naufal Mansor**, Azrini Idris, Azhan Zamire Mukhtar, Siti Fazlina Fauzi,Wan Zuki Azman Wan Ahmad, (2012)) “Safety System Based on Linear Discriminant Anaysis” in Advanced Materials Research (AMR) Journal (ISSN: 1022-6860)
- [25] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, (2012) “Infant Hungry Recognition Based on k-NN and AR Model” in International Journal Advanced Science Letters (ISSN: 1936-6612) **[IF 1.253]**
- [26] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, (2012) “Preventing Sudden Infant Death Syndrome (SIDS) based on Motion Estimation and Neural Network” in International Journal Advanced Science Letters (ISSN: 1936-6612) **[IF 1.253]**

International Conference Paper

- [1] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan (2009). "Motion Detection for Mobile Observation Center" in *Engineering Postgraduate Conference, (EPC 2009)*, Perlis, Malaysia, July 2009.
- [2] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan (2009). "Design and Development of Stereo Motion for Mobile Observation Center" in *International Conference on Man-Machine Systems (ICoMMS)*, Penang, Malaysia October 2009.
- [3] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, M.Hariharan (2010). "Detection of Facial Changes for Hospital ICU Patients" in *International Colloquium on Signal Processing & Its Applications (CSPA2010)*, Melaka, Malaysia, June 2010.
- [4] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, M.Hariharan (2010). "Detection of Facial Changes for Hospital ICU Patients using Neural Network" in *International Colloquium on Signal Processing & Its Applications (CSPA2010)*, Melaka, Malaysia, June 2010.
- [5] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, Lim Sin Che, M.Hariharan (2010). "Detection of Facial Changes for Hospital ICU Patients using k-NN Classifier" in *International Conference on Intelligent and Advanced Systems (ICIAS 2010)*, Kuala Lumpur, July, 2010.
- [6] **Muhammad Naufal Mansor**, Sazali Yaacob, R.Nagarajan, M Hariharan (2010). "Patient Monitoring for Hospital ICU Patients under unstructured lighting" in *IEEE Symposium on Industrial Electronics & Applications (ISIEA 2010)*, Penang, Malaysia, October, 2010.
- [7] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh, Jamluddin Ahmad (2012). "Acute Pain Assessment Using Linear Discriminant Analysis" in *8th International Conference on Innovations in Information Technology, (IIT'12)*, Al Ain, UAE, March 2012.
- [8] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh, Jamluddin Ahmad (2012). "Fuzzy k-NN for Clinical Infant Pain Trial" in *8th International Conference on Innovations in Information Technology, (IIT'12)*, Al Ain, UAE, March 2012.
- [9] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh, Jamluddin Ahmad (2012). "Automatically Infant Cues Recognition based on LDA and SVM classifier" in *World Congress 2012 on Medical Physics and Biomedical Engineering (WC2012)*, Beijing, China, May 2012.
- [10] **Muhammad Naufal Mansor**, Sazali Yaacob, M.Hariharan, Shafriza Nisha Basah, Shahrul Hi-fi Syam bin Ahmad Jamil, Mohd Lutfi Mohd Khidir, Muhammad Nazri Rejab, Ku Mohd Yusri Ku Ibrahim, Addzrull Hi-fi Syam bin Ahmad Jamil, Ahmad Kadri Junoh, Jamluddin Ahmad (2012). "K-nn and Fuzzy K-NN Algorithm for fast Infant Cues Detection" in *World Congress 2012 on Medical Physics and Biomedical Engineering (WC2012)*, Beijing, China, May 2012.

- [11] **Muhammad Naufal Mansor**, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, Addzrull Hi-fi Syam bin Ahmad Jamil, (2012). “Suffocate Infant Behaviour Recognition Scheme Based ON Neural Network Classifier” in 2nd International Conference on Electronics and Optoelectronics (ICEOE2012), Shenyang, China, July 2012.
- [12] **Muhammad Naufal Mansor**, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, Addzrull Hi-fi Syam bin Ahmad Jamil, (2012). “Fuzzy k-NN for Choke Infant Detection” in 2nd International Conference on Electronics and Optoelectronics (ICEOE2012), Shenyang, China, July 2012.
- [13] **Muhammad Naufal Mansor**, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, Addzrull Hi-fi Syam bin Ahmad Jamil, (2012). “Neonates Suffocated Recognition Based on LDA Algorithm” in 2nd International Conference on Electronics and Optoelectronics (ICEOE2012), Shenyang, China, July 2012.
- [14] **Muhammad Naufal Mansor**, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, Addzrull Hi-fi Syam bin Ahmad Jamil, (2012). “Early Choke Infant Monitoring Scheme” in 2nd International Conference on Electronics and Optoelectronics (ICEOE2012), Shenyang, China, July 2012.
- [15] **Muhammad Naufal Mansor**, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, Addzrull Hi-fi Syam bin Ahmad Jamil, (2012). “K-nn Algorithm for Fast Infant Pain Detection” in 2nd International Conference on Electronics and Optoelectronics (ICEOE2012), Shenyang, China, July 2012.
- [16] **Muhammad Naufal Mansor**, Shahrul Hi-fi Syam bin Ahmad Jamil, Muhammad Nazri Rejab, Addzrull Hi-fi Syam bin Ahmad Jamil, (2012). “Fast Infant Pain Detection Method” in 4th International Conference on Computer & Communication Engineering (ICCCE'12), Kuala Lumpur, Malaysia, July 2012.

Activities / Professional Associations:

1. Attended for “5th International Summer School on Signal Processing and Its Application” at UTM City Campus KL, 18th – 19th June 2008.
2. Participated in “2-Day International Public Seminar: Commercializing R&D Product and Services” by UniMAP at PWTC, 3rd – 4th August 2008.
3. Attended International Conference on Electronic Design, ICED 2008 (Theme: Embedded System Applications), School of Computer and Communication Engineering, Universiti Malaysia Perlis, 1st – 3rd December, 2008
4. Attended Workshop on Image Processing Using MATLAB (From Basic to Applications) at School of Mechanical Engineering, Universiti Sains Malaysia, and 21st May 2009.
5. Participated in “Expo Rekacipta & Pameran Penyelidikan UniMAP” at Dewan Wawasan 2020, by Universiti Malaysia Perlis, 17th December 2009
6. Involved in robot development for UniMAP A Robocon Team 2009.

7. Attended “Technical Seminar on Underwater Acoustics” by Prof. Rodney Coates at UniMAP, 12th January 2009 Taman Kechor,Perlis.
8. Participated in “ABU-Robocon Malaysia 2009” at Stadium Melawati, Shah Alam, Malaysia on 5th – 6th May 2009 as technical support.
9. Attended “One Day Technical Lecture by Prof Stephen Elliot in Modeling and Active Control of Sound” at Jejawi Meeting Room on 27th August 2008.
10. Contributed as the Accommodation Committee in the “One Day Technical Lecture by Prof Stephen Elliot in Modeling and Active Control of Sound” at Jejawi Meeting Room on 27th August 2008.
11. Participated in “Exspo Penyelidikan dan Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA) 2009” jointly organized by Ministry of Higher Education and Universiti Malaya at KL Convention Centre con 8th – 10th October 2009.
12. Presented two papers at the "6th International Colloquium on Signal Processing & Its Applications (CSPA 2010)" held at Melaka, Malaysia on the 23rd - 25th Mei 2010.
13. Presented research progress at the "Technical Seminar on Intelligent Signal Processing (TSISP 2010)" held at Kampus Pauh Perlis, Malaysia on the 25th June 2010.
14. Contributed as the Accommodation Committee in the "International Postgraduate Colloquium on Engineering (IPCE 2010)" held at Perlis, Malaysia on 16th - 17th October 2010.
15. Presented papers at the IEEE Symposium on Industrial Electronics and Applications (ISIEA 2010) held at Penang, Malaysia on the 3rd - 25th Oct 2010.
16. Participated in “Expo Rekacipta & Pameran Penyelidikan UniMAP” by Universiti Malaysia Perlis, 22th December 2010
17. Participated in “2011 IEEE 7TH International Colloquium on Signal Processing & Its Applications (CSPA 2011)”, Penang, Malaysia by Universiti Teknologi mara, 4th -6th March 2011 as a reviewer
18. Participated in “International Conference on Electrical, Control and Computer Engineering (InECCE 2011)”, Kuantan, Pahang, Malaysia by Universiti Malaysia Pahang, 21th -22th June 2011 as a reviewer
19. Participated in “2011 IEEE International Conference on Control System, Computing and Engineering (ICCSCE2011)”, Batu Ferringhi, Penang, Malaysia by Universiti Teknologi mara, 25th -27th November 2011 as a reviewer
20. Presented papers at Thursday on 3 held at ISP Cluster UniMAP” by Universiti Malaysia Perlis, 22th December 2011.
21. Attended “Tuesday on 2” by Sin Chee Lim at UniMAP, 12th January 2012 Universiti Malaysia, Perlis.
22. Participated in “2012 4th International Conference on Computer and Communication Engineering (ICCCE’2012)”, Kuala Lumpur, Malaysia by International Islamic University Malaysia, 3rd -5th July 2012 as a reviewer
23. Gave a talk in “Learning Classifier Algorithm for Data Mining Process”, held at ISP Cluster UniMAP” by Universiti Malaysia Perlis, 15th Feb 2012.
24. Attended a talk in “SPSSS Workshop” by Fazliana Hamzah at UniMAP, held at ISP Cluster UniMAP” by Universiti Malaysia Perlis, 16th Feb 2012.
25. Participated in “2012 IEEE Symposium on Humanities, Science and Engineering (SHUSER 2012)”, Kuala Lumpur, Malaysia by Universiti Teknologi mara, 24th -27th June 2012 as a reviewer

26. Contributed as the Technical Committee in the “One Day Technical Lecture by Prof Sazali Yaacob in Why Modeling” at Pau Meeting Room on 28th Mac 2012.
27. Reviewer for The International Journal of Acoustics and Vibration (IJAV) ISSN 1027-5851

Referee

Prof. Dr. Sazali Yaacob

Ph.D in Control Engineering (Sheffield,)

M.Sc. in System Engineering (Surrey)

B.Eng. (Hons) in Electrical Engineering (UM)

Tel : 604-9798499

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Prof. Dr. Ramachandran Nagarajan

Ph.D in Adaptive Control (Madras, India)

M.Tech in Control Engineering (IIT, India)

B.E (Hons) (Madras, India)

Tel : 604-9798148

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