

EXECUTIVE SUMMARY

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|----------------------------------|---|--|
| TITLE | : | ARTIFICIAL INTELLIGENCE FOR SMES (AI4S) PROGRAM |
| OBJECTIVE | : | To create awareness and promote AI-based Machine Vision technology which is a key element of I4.0 |
| IMPACT TO BUSINESS | : | <ul style="list-style-type: none"> i. To transfer 'AI-based machine vision' knowledge to 100 SMEs by 2021 ii. Proliferation of EEPN's Plugfest programmes to nationwide iii. Bring big business and SMEs together "under one roof" and promote electrical and electronics sector. |
| DURATION | : | July-Oct 2021 |
| VENUE | : | Kuala Lumpur/Online |
| TOTAL COST | : | RM25,000 |
| BUDGET | : | MPB - EEPN |
| RECOMMENDED BY | : | |
| Comment/ Signature by PCT | : | |

MALAYSIA PRODUCTIVITY CORPORATION (MPC)
PROPOSAL FOR BOARD OF MANAGEMENT

Artificial Intelligence for SMEs (AI4S) Program

1.0 Purpose

The purpose of this paper is to request approval from Board of Management (BOM) to conduct Intel Artificial Intelligence for SMEs (AI4S) Program with the total estimated cost of **RM 25,000.00** using the SPC2.0.

2.0 Background

EEPEN established under MPC has the charter of enhancing the competitiveness of our E&E industry; particularly in increasing the productivity, capability and competency of the E&E subsector. One of the key focus areas is to create value towards the Industry 4.0 ecosystem and EEPEN has conducted Plugfest 1.0 IIOT and Plugfest 2.0 AIOT. This programme aimed to kick-start the SMEs to embark on the Industry 4.0 journey in a simple way, yet with great impact that the engineer have to conduct proof of concepts (POCs) back to their factory.

Hence, EEPEN, MPC, MIDA and INTEL would like to accelerate this initiative through Intel's sponsoring on the Artificial Intelligence for SMEs (AI4S) starter kits. This programme's objective is to transfer AI-based Machine Vision knowledge to 100 SMEs by 2021 with proliferation nationwide. This six half-days hands-on workshop aims to educate and empower the participants to able to adopt machine vision system in their work environment, upon completion of the workshop.

The starter kit (hardware and software suite) will be wholly developed by the Technical Principal, which comes complete with the workshop package. The Technical Principal will also provide coaching resources to assist participants in developing their Proof of Concept (POC) for machine vision systems.

3.0 Objective

This workshop aims to achieve the following specific objectives:

- i. To create awareness and promote AI-based Machine Vision technology which is a key element of I4.0
- ii. To support, coach, prepare and enable participants to carry out AI-based Machine Vision project within their company using the Plugfest 2.0 starter-kit.
- iii. Each participant will be able to present the project outcome within 6 weeks, upon completion of workshop.

4.0 MPC Roles and Scope of Work

Among other things, the MPC roles in the AI4S workshop are as follows:

- a) Partnering with Technical Principal to:
 - Planning of the entire activities leading to the actual event day
 - Design the program materials and publications
 - Facilitate promotional and invitation activities
 - Manage communications with all stakeholders and participants
 - Monitor progress with respect to program timelines
 - Ensure that venue and facilities are set-up to host the event (venue can be actual classroom/virtual classroom)
- b) Actual event day management
 - Assign a dedicated program coordinator to be on-site, to manage the actual event day
 - Ensure that all activities related to the actual AI4S workshop are performed as planned
 - Assign the necessary resources to ensure overall success

5.0 Output

The output expected from the participants is to develop and establish Proof of Concept (PoC) project which includes data acquisition and remote monitoring capability to improve productivity by each company participated.

6.0 Project Timeline

AI4S Milestones



| Milestones | Progress | 2021 | | | | | | | | | | |
|--|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov |
| Launching Event (27 th Jan 2021) | 0% | X | | | | | | | | | | |
| Company signed up for the programme and agreement | 5% | | X | X | | | | | | | | |
| Company received Starter Kits | 10% | | X | X | | | | | | | | |
| 1 st , 2 nd & 3 rd training event | 20% | | | X | X | | | | | | | |
| 4 th & 5 th training event | | | | | | X | | | | | | |
| Registered project in PMS | 30% | | | X | X | X | | | | | | |
| Company submitted POCs project proposal | 40% | | | | X | X | X | X | | | | |
| Company completed 50% of POCs | 70% | | | | | X | X | X | X | X | | |
| Company fully completes POCs | 90% | | | | | | X | X | X | X | X | X |
| Submission of report & Video | 100% | | | | | | | X | X | X | X | X |

7.0 Actual Spending for Feb – May 2021

The table below shows the overall budget for the programme

| # | Activity | Cost per unit (RM) | Total (RM) |
|--------------|---|---|------------------|
| 1 | Food Voucher For participants, secretariat, and trainers | Workshop 1 : RM30 x 29pax = RM870 Workshop 2 : RM30 x 40pax = RM1200 | 2,070.00 |
| 2 | Lead Facilitator | RM3000 x 2 workshops | 6,000.00 |
| 3 | Facilitator | RM2500 x 2 workshops | 5,000.00 |
| TOTAL | | | 13,070.00 |

8.0 Estimated Cost for July-October 2021

The table below shows the budget for June-Sep 2021 of the programme

| # | Activity | Cost per unit (RM) | Total (RM) |
|--------------|--|-----------------------------|------------------|
| 1. | Food Voucher For participants, secretariat, and trainers) | RM30 x 50 pax x 2 workshops | 3,000.00 |
| 2. | Lead Facilitator | RM3,000 x 4 months | 12,000.00 |
| 3. | Facilitator | RM2,500 x 4 months | 10,000.00 |
| TOTAL | | | 25,000.00 |

9.0 Approval from BOM

The consideration and approval of the Board of Management (BOM) is sought for to conduct Artificial Intelligence for SMEs (AI4S) Program with the total estimated cost of **RM 25,000** using the SPC2.0 and Operational budget.

Prepared by:



Nurul Nadia Zainal
Adnan
Project Manager
Date: 22 July 2021

Reviewed by:



Lee Wan Wei
Programme Manager
Date: 22 July 2021

Approved by:



Dr. Mohamad
Norjayadi Tamam
Director
Date: 23 July 2021