JOB DESCRIPTION

 A. Position Purpose & Summary: Research concepts and methods to solve a given task 			
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 Develop algorithms for POC/Proto use 			
 To arbitrate a set of solutions to arrive at best-fit for a given problem 			
 To implement programming sub-tasks w.r.t SDLC policies 			
To model mechanically a given model/sub-model using CAD tools			
 To fine-tune model in accordance with manufacturing technology & tolerances 			
 To assemble component solutions SW/FW/HW for a given POC/prototype 			
 To develop, test and optimize POCs & prototypes towards a functional outcome 			
To contribute to the documentation of ALL POC/Prototype mo	odels		
To participate in various review sessions primarily as a review	/ee		

B. Primary Duties & Responsi	bilities:
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- Prepare proposals for feasibility, development and/or verification of provided sub-tasks
- Code, test and debug embedded software modules as per API/SRS (Software Requirement Specifications)
- Design, Prototype & Test software/hardware/mechanical solutions as per design specifications
- Participate in code, CAD, schematic & PCB design review
- Documentation source codes, test plan & report, bug tracking, release notes, CAD models, etc.
- Software/Hardware maintenance i.e. bug fixes, modulebased enhancements

C. Accountability:

• To refer to Level of Authority as per MIMOS Policy.

POSITION REQUIREMENTS

D. Academic Qualification:		
 Phd Master's Degree Others (Please specify) Engineering Information Technology Science Marketing / Business Finance / Management Others (Please specify) Human Resource 		
Finance / Management Others (Please specify) Human Resource		
E. Experiences:		
Fresh 1- 3 years 5-10 years More than 10 years		
R&D Information Technology Manufacturing Oil & Gas		
Finance / Admin Sales / Marketing Others (PIs specify)		
F. Technical Skills	G. Soft Skills	
C/C++/Python Programming	Analytical thinking	
Embedded Development - bare metal, Arduino, FreeRTOS, etc	Problem solving	
Experience with microcontroller architecture and peripherals	Good command of verbal and written English,	
	Bahasa Melayu	
Familiar with 3D CAD (Fusion 360, Solidworks)	Time management	
Familiar with PCB CAD (Kicad, Eagle)	Team player	
Experience with motors (DC, BLDC) and Drives (Servo, H-Bridge, Inverters)	Good interpersonal skill	

Additional Preferences

- Knowledge of electronic circuits and components with ability to read schematics and datasheets
- Board troubleshooting with logic analyzer, oscilloscope, microprocessor debugger, protocol analyzer
- Familiarity with Internet of Things (IoT) system
- Ability to understand and extend code written by others
- Ability to quickly prototype new concepts and ideas
- Familiar with SDLC concepts and methods
- Experience with manufacturing technology (3D printing)
- Experience in mobile apps development such as Android, IOS
- Experience in Windows application development using Python/C++/QT

Related Job Match

Degree or Masters in Mechatronics Engineering

APM-15003-A_1