

Electronic Engineer (Software, AI ML)

Market Related CTC Neg
Pretoria, South Africa (Gauteng)

Permanent position at an engineering company located in Pretoria in the Security, Military / Defence industry.

Introduction

A company in the research and development environment is seeking an electronic engineer. The company is located in Pretoria and is a market leading international company specialising in the development of Electro-Optical (EO) assemblies.

MINIMUM REQUIREMENTS:

- B.Eng degree (electronic or computer).
- Software design and implementation experience.
- Experience in product development.
- Software system engineering experience.
- Specialist knowledge (required / preferred):
 - Object orientated programming experience (C++) (required).
 - Embedded systems software development (required).
 - Experience in image processing (preferred).
 - Machine learning algorithms development (preferred).

Key Responsibilities:

- Provide a Software Engineering service in the Electro-Optical field that includes the following tasks:
 - Interpretation of system / product requirements applicable to software, electronic and firmware design considerations.
 - Interfacing with other engineering disciplines and specialists in the optical, mechanical, electronic, software etc. fields.
 - Development of system and subsystem software.
 - Development of PC based application software for test equipment.
 - Generation of relevant firmware, software and hardware documentation (e.g. SRS, SIRS, ATP, FDD, ICD, Product Spec, etc).
 - Systems integration and testing with other engineering disciplines.
 - Version and configuration control of produced work items.
 - Testing, fault finding and debugging on EO sub-system and system level down to component level.
 - Lead technical investigations in ex. Matlab, Python etc.
 - Reviewing of hardware and software designs.
 - Investigate and evaluate machine learning algorithms from research paper level.
 - Implement machine learning algorithms in firmware from research paper level.
 - Preparation of software implementations for serial production.

- Engineering management support including but not limited to:
 - Mentoring of junior electronic and software engineers.
 - Providing firmware, software and hardware support and training.
 - Interfacing with the production facility.
 - Engineering project planning and managing.
 - Generation of specification and other related documentation.
 - Generating estimates and quotations.
 - Subcontracting engineering manpower and outsourced tasks.
- Any other reasonable tasks given to the employee.
- Occasional international travel to clients or the parent company.

Salary:

Market related salary, depending on experience.

No recruitment agencies.

Contact Details:

Should you be interested and fulfil the minimum requirements and wish to be considered an applicant for this position, please apply via email and send your CV to info@shockeos.com