SAIMC Company Profile

Version 1.6

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Contents

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1   INTRODUCTION

Company Name: SAIMC NPC

Company Number: 2010 / 014751/08

VAT: Not registered for VAT

2   EXECUTIVE SUMMARY

The Society for Automation, Instrumentation, Measurement and Control was established in 1958. It was since renamed "**Society for Automation, Instrumentation, Mechatronics and Computer Engineering**" to cater for Mechatronics, Factory Automation, Process Automation and Computer Engineering. The SAIMC strives to ensure its members are successful by preparing them to meet the challenges facing them due to the rapid changes occurring within and around the Automation Industry.

3   ABBREVIATIONS

CEO: Chief Executive Officer.

CFO: Chief Financial Officer.

ECSA: Engineering Council of South Africa.

EXCO: Executive Committee.

ISA: International Society of Automation.

MD: Managing Director.

NPC: Non-Profit Company.

OEM: Original Equipment Manufacturer

SA: South Africa.

SAIMC: Society of Automation, Instrumentation, Mechatronics and Computer Engineering.

VA: Voluntary Association.

4   WHERE DOES THE SAIMC FIT IN?

The SAIMC is a Voluntary Association of the Engineering Council of South Africa (ECSA) that applied for recognition in terms of section 36(1) of the Engineering Profession Act, 2000 (Act 46 of 2000) and was recognised by the Council in terms of Section 25(3) of the above Act.

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Category A Associations are those whose membership consists of natural persons who are practising in engineering in any discipline or sub discipline of engineering; or in any particular category of registration contemplated in section 18 of the Act.

Both the SAIMC and ECSA enforces a strict code of conduct to ensure highest standards are maintained within the Engineering Profession. SAIMC in strengthening its position further leverages off international affiliations such as the International Society for Automation and MESA International.

SAIMC, in existence since 1958, serves more than 1,000 individuals, all registered across various registration categories.

5   SAIMC NPC Structure

5.1   The Board

The SAIMC Board is a overseer of the SAIMC EXCO and consists of at least three directors of which the majority must be registered with the Engineering Council of South Africa.
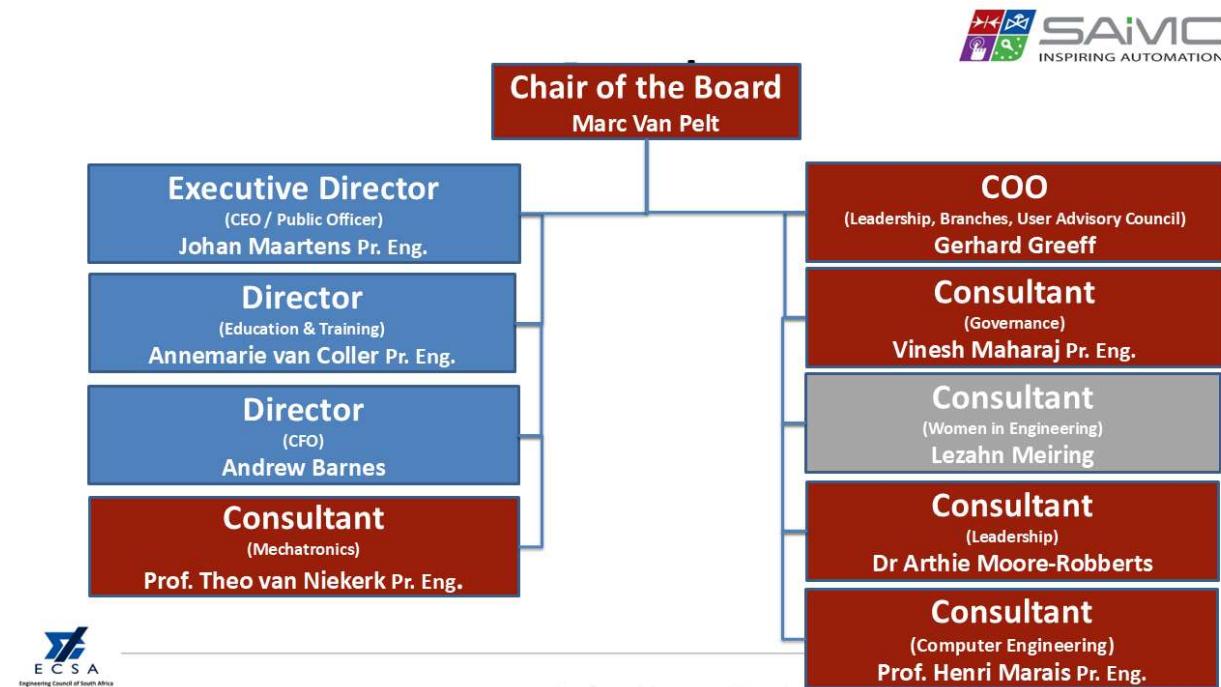

Figure 5-1The SAIMC NPC Board

5.2   The Executive Council of the SAIMC NPC

EXCO manages the operations of the SAIMC NPC and consists of Advisory Councils, branch general managers, an administrator, a public relations officer, a CFO and a digital marketing manager.

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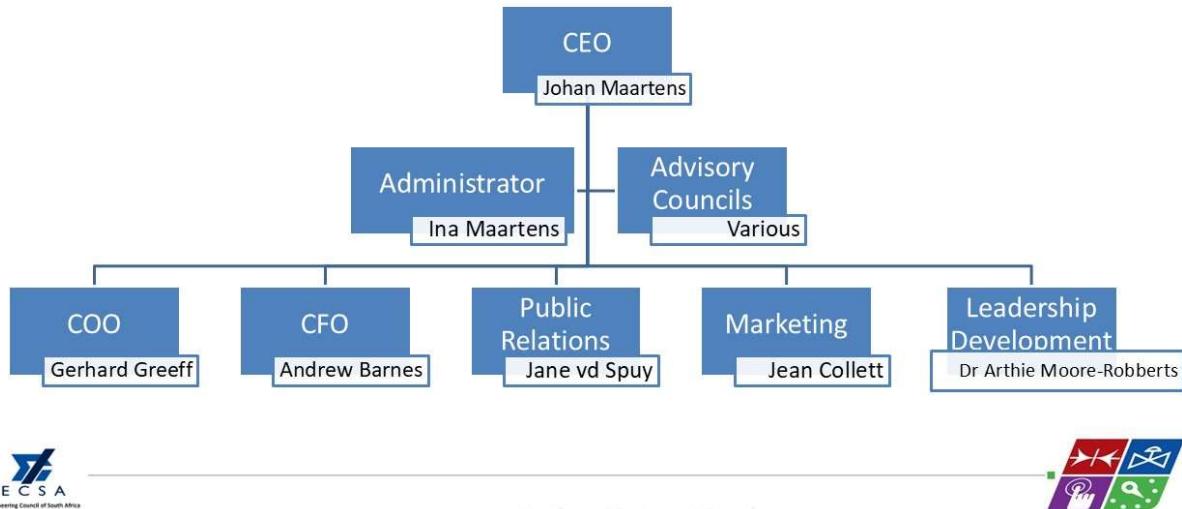
EXCO

Figure 5-2: EXCO

5.3   Advisory Councils

Advisory Councils includes a Supplier Advisory Committee headed by Level C members of OEM's, the Education and Training Advisory Council of tertiary education institutions and private education institutions, a User Advisory Council of C-level managers, a Mechatronic Advisory Council and a Computer Engineering Advisory Council.

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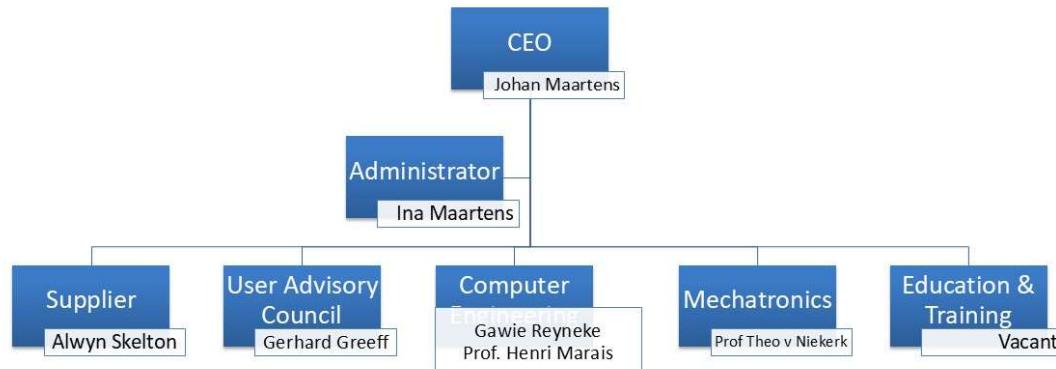
Advisory Councils

Figure 5-3: Advisory Councils

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5.4   SAIMC NPC Membership

Companies joined the SAIMC as National Members, Regional Members and Didactic Members. Individual members may join as Student Members, Members, Senior Members, Didactic Members or Corporate Members.
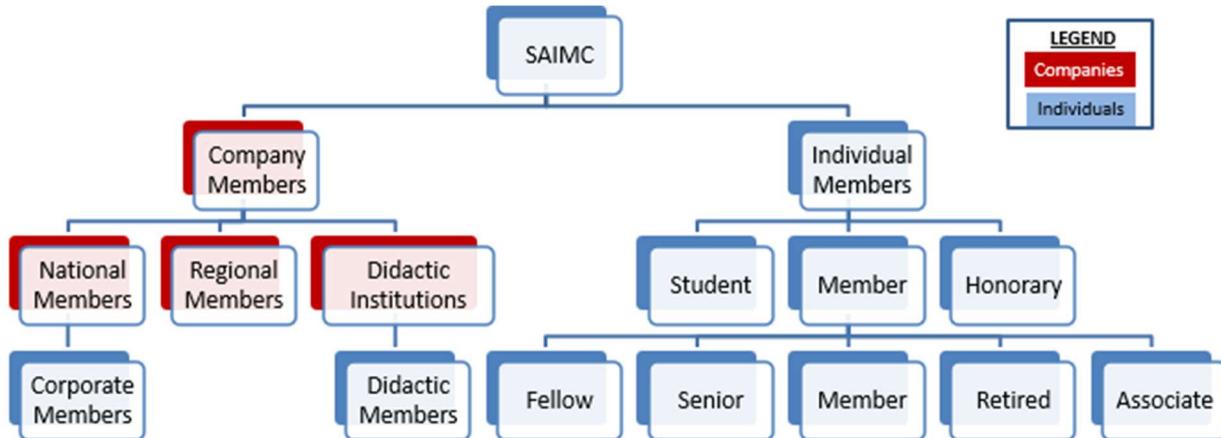
Figure 5-4: Membership Structure

SAIMC, an association comprised of volunteers, is one of the few to have a full-time Chief Executive Officer (CEO) reporting to the Board.

The website saimc.co.za contains the latest list of National Members, Regional Members and Didactic Members.

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6 OBJECTIVE AND ACTIONS OF SAIMC

The principal activities of the SAIMC include transforming the Automation Industry for the 4th Industrial Revolution in Southern Africa. The activities include technical evenings, site visits, and working with regulatory-, standards- and educational bodies to improve the Automation education, training and practice level.

The SAIMC has powerful allies in its National Members, Regional Members and Didactic Institute Members that assist and enable it to reach its goals.

There are many advantages of joining forces with the SAIMC as a member, such as:

- By registering with SAIMC, members registered with the Engineering Council of South Africa receive a discount on annual ECSA fees. They are encouraged to register with ECSA in their respective categories.

- Joining the SAIMC adds weight to the SAIMC when it comes to participating in discussions about education and training within our Industry and commenting on legal and other issues that impact the industry.

- Cost savings when your company and each employee need to register their training programs for CPD (Continuing Professional Development) purposes for the professional individuals working in their Industry

- Members participate in the various promotions of the SAIMC.

- Members exchange ideas with like-minded people in this Industry while at the same time adhering to the strict Code of Conduct of the SAIMC.

The SAIMC also taps into the vast resources of the ISA, the International Society for Automation (previously the Automation Federation) for training material and certifications for our members.

7 WHAT IS INDUSTRIAL AUTOMATION

Figure 7-1: 4IR

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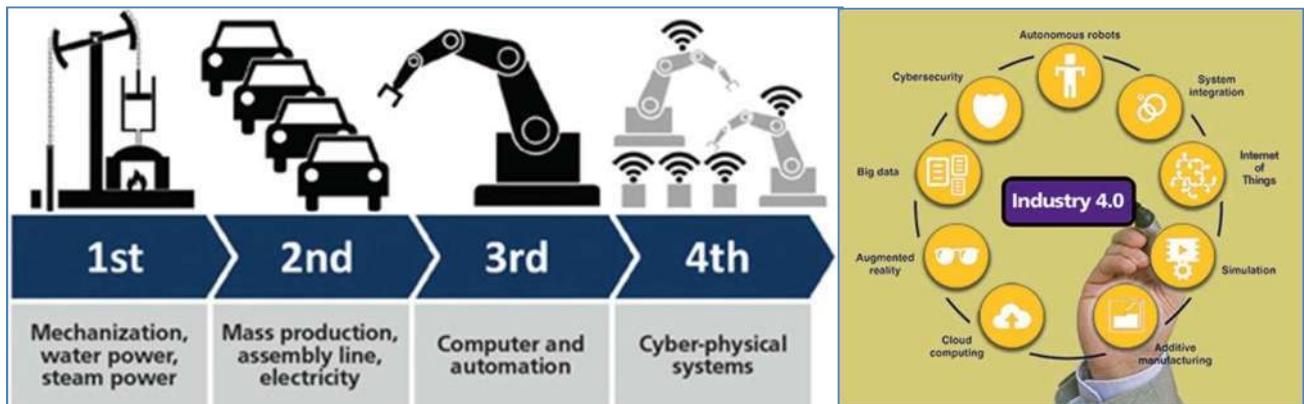
The images below depict industries in which Industrial Automation may typically be found along with different components which it traditionally included. However with the advent of 4th Industrial revolution on our door step, it is envisaged Industrial Automation will be severely impacted: https://www.isa.org/intech/20160601.
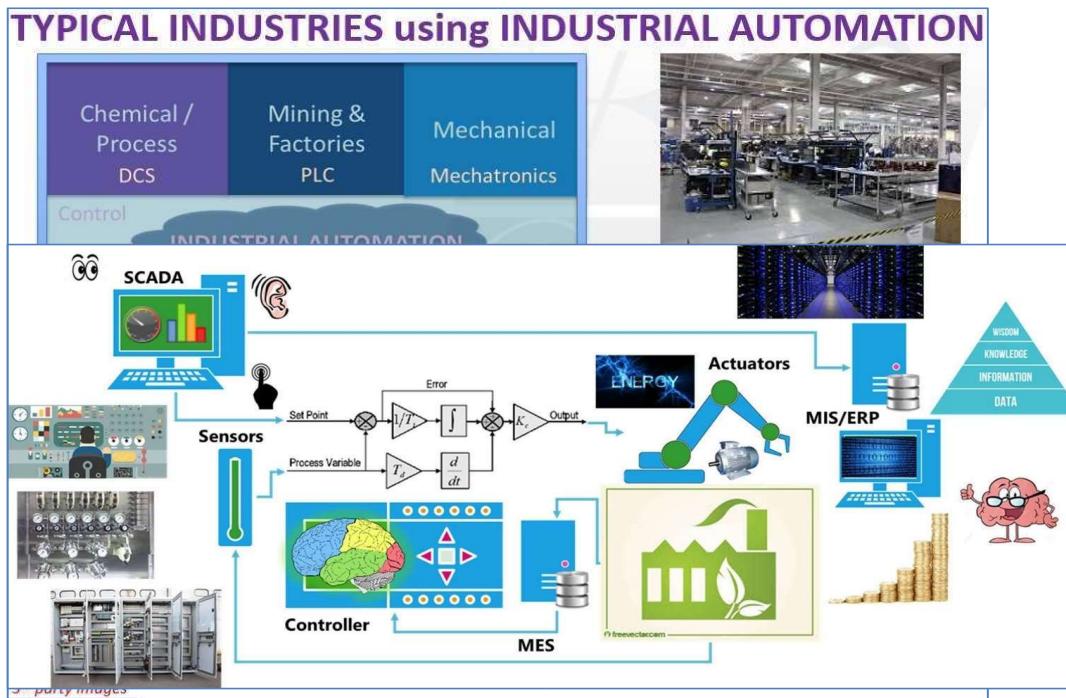
*Figure 7-2; Typical Industries*

8   STRATEGIC

8.1   Motto

The motto of the SAIMC NPC is "Inspiring Automation".

8.2   Vision

To empower our members by:

- Membership recognition at all membership levels.
- Assist in making our members successful.
- Significant and valuable benefits to all members.
- Evangelise technology benefits.

8.3   Goals

- Promote Automation Technology

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- o Promote to Youth

- o Inspire Automation

- Facilitate Knowledge Sharing

  - o Provide Education Sectors with Applicable Knowledge and Equipment

  - o Coordinate Training Between Stakeholders

  - o Platform to Exchange Knowledge and Experience

- Ensure Sustainable Growth of SAIMC

  - o Increase resources

  - o Grow Existing Resources

- Provide Accreditation

  - o Develop Best Practice

  - o Align Industry, Education and Government

- Promote Industry Visibility

  - o Communication

  - o Public Relations

  - o Marketing

  - o Brand Visibility

- Influence Policy Development

8.4 Code of Conduct

8.4.1 Introduction

The SAIMC has found it necessary to implement a Code of Conduct in line with that of the Engineering Council of South Africa to provide rules of behaviour acceptable for the SAIMC and its members.

The SAIMC recognises that the activities of the Society are for the benefit of the South African community over and above the interests of any individual, SAIMC member or company.

8.4.2 Purpose

The Code of Conduct ensures that guidelines are available to our members regarding acceptable conduct. Due to the nature of our business, people from competing suppliers and users come together at Technical evenings and other functions. Guidelines are required to prevent non–compliant behaviour of any form taking place.

8.4.3 Rules of Conduct: Ethics

Members of the SAIMC must comply with the following rules:

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8.4.4   Integrity

Members of the SAIMC:

(a) Must discharge their duties to their employers, clients, associates and the public with integrity, fidelity, and honesty.

(b) Must not undertake work under conditions or terms that would compromise their ability to carry out their responsibilities in accordance with acceptable professional standards.

(c) Must not engage in any act of dishonesty, corruption or bribery.

(d) Must avoid any perceived, actual or potential conflict of interest.

(e) May neither personally nor through any other person improperly seek to obtain work, or by way of commission or otherwise, make or offer to make payment to a client or prospective client for getting such work.

(f) Must notify EXCO immediately if they become aware of a violation of these Rules by any other member of the SAIMC.

(g) Shall uphold the principles of a consensus–based approach through openness, transparency, balance and respect for each member in alignment with internationally recognised principles of consensus.

8.4.5   Dignity of the Profession

Members of the SAIMC: -

(a) Must order their conduct to uphold the dignity, standing and reputation of the profession.

(b) May not, whether practising their profession or otherwise, knowingly injure the professional reputation or business of any other member of the SAIMC.

(c) May not advertise their professional services in a self-laudatory manner that is derogatory to the dignity of the profession.

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9   PROFESSIONAL

The Engineering Professions Act of 2000 **paragraph 3 (1) a i** stipulates that the Council of ECSA (Engineering Council of South Africa) "*must be nominated by the voluntary associations, registered persons and prescribed nominating bodies*"

This gives the SAIMC insight and participation in the activities of ECSA and this is currently happening through the President's Council of ECSA.

Paragraph 11 of the same act gives ECSA the power to "*consider and decide on any application for registration*". With the SAIMC's involvement in ECSA, this gives the SAIMC insight and participation in the registration of people within the automation, instrumentation, mechatronics, computer engineering and control fields.

Paragraph 13 (d) then gives ECSA the power to "*consult with the South African* Qualifications Authority established by the South African Qualifications Authority Act, *1995 (Act No. 58 of 1995), or anybody established by it and the voluntary associations, to determine competency standards for the purpose of registration*"

Paragraph 14 (e) authorises ECSA to "advise the Minister, any other Minister or the CBE on any matter relating to the engineering profession".

Paragraph 18 (2) prohibits people working in any category unless they are registered in that category:

- Professional Engineer
- Professional Engineering Technologist
- Professional Certificated Engineer or
- Professional Engineering Technician

"A person may not practice in any of the categories contemplated in subsection (1), unless he or she is registered in that category".

Paragraph 26 of the act specifies ECSA's responsibilities with regards to the Identification of Work – work that only registered professionals may do.

Paragraph 26 1(a) specifically states that ECSA must consult with all voluntary associations – of which the SAIMC is one.

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10   EDUCATION AND TRAINING

10.1 Education

The SAIMC is committed to ensure Automation plays a major role within the education space. With the advent of the fourth industrial revolution, the SAIMC recognises that if the young and upcoming engineers, technologists and technicians are not equipped for this revolution in South Africa, South Africa will remain a major   exporter of raw material.

Education forms the basis from which technical people can launch various initiatives for South Africa to benefit from the Fourth Industrial Revolution.

We are in discussions now to formalise education and training within the following context: The basis of the discussions is the fact that Automation spans various disciplines and has
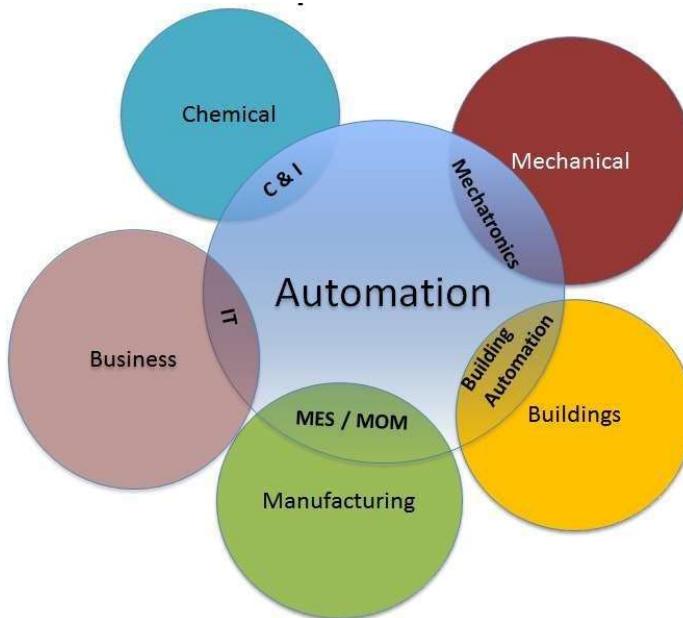

Figure 10-1: Automation Sphere of Influence

become so specialised that it could be possible for a new discipline to be formed called Automation with specialties in Mechanical (Mechatronics), Chemical process control (known as C&I), Manufacturing (MOM / MES) etc. Countries like Germany and others are being sponsored by their governments to look at Industrie 4.0 while the US has formed the International Society for Automation (previously the Automation Federation) of which the SAIMC is part.

10.2 International Society for Automation (previously the Automation Federation)

The SAIMC has joined the ranks of the International Society for Automation (previously the Automation Federation) to formalise the education and training of people in our Industry. The following roles have already been defined together with the curriculums and job descriptions:

![SAIMC Inspiring Automation]

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Current Defined Automation Positions

- Automation Technician

- Control Software Engineer

- Control Systems Engineer

- Advanced Control Engineer

- Enterprise Integration Engineer

- Automation Network Engineer

- Automation Sales-Marketing Professional

The Model
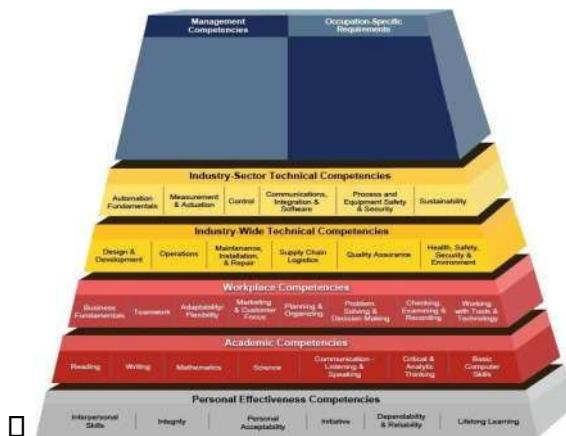
Figure 10-2: New Proposed Automation Positions

The SAIMC is currently working on ways this can be implemented within South Africa, much the same way as Project Management PMI is being implemented.

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10.3   FIRST Lego League / FIRST Tech Challenge

FIRST

For

Inspiration

&

Recognition of

Science & **T**echnology

The SAIMC has built a trailer for the First Lego League for taking this to schools who cannot afford their own First Lego League sets.

Figure 10-3 FIRST trailer

When the First Lego league heard of this, they donated all the sets for the trailer!

The trailer was officially commissioned in 2012 with the funds the SAIMC has received from membership fees.

Since then, the SAIMC has contributed towards these programs on a regular basis and has also encouraged our Members to do the same.

10.4 Tertiary Technical Education

The SAIMC maintains a close working relationship with Tertiary institutions with a view to supporting their facilities and course structures so that they are able to produce graduates who are capable of producing useful work with minimal delay after they have qualified. Funds have been supplied to assist some establishments with the provision of laboratories dedicated to automation and allied disciplines, and this is an ongoing process.

Senior representatives from the SAIMC conduct seminars and lectures for students specialising in the disciplines to prepare them for their early days when they enter the industrial environment.

The SAIMC is represented on Industry Liaison Boards of some universities and aims to expand their influence to contribute to other universities.

The SAIMC is working with its Didactic Members to adopt their curriculums in line with ECSA and industry requirements to deliver "products" required by industry and technology developments.

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11   STANDARDS

In 2014 the SAIMC successfully lobbied the South African Bureau of Standards (SABS) to create two technical committees (TC's) for Automation and Control Standards. These TC's mirrored the International Electro-Technical Commission's (IEC's) Technical Committees:

- TC065 (IEC TC031 mirror committee)
- TC165 (IEC TC065 mirror committee)

As a result, the SAIMC is now the driver of the adoption/modification of international standards!

Also: SC165A,B,C,E, IEC61158, EC60654, IEC60584, IEC61131, IEC61326, IEC60534, IEC62337, IEC62381, IEC62382, IEC61512, IEC62541, IEC62264, IEC62061, IEC61513

12   CALL TO ACTION

The SAIMC hence calls on you to:

- If you have the right qualifications, register with the Engineering Council of South Africa.
- Help us support education by sponsoring to our cause, not just funds but also by mentoring and volunteering your time.
- Become a SAIMC member.
- Your company to become National Member, Regional Member or Didactic Member.

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Figure 12-2Call to Action

Figure 12-1: CPD

We will evaluate your training courses for CPD purposes which will also our   professional members to remain registered with the Engineering Council of South Africa (ECSA).

We will also assist the Technicians, Technologists and Engineers to register as professionals with ECSA.

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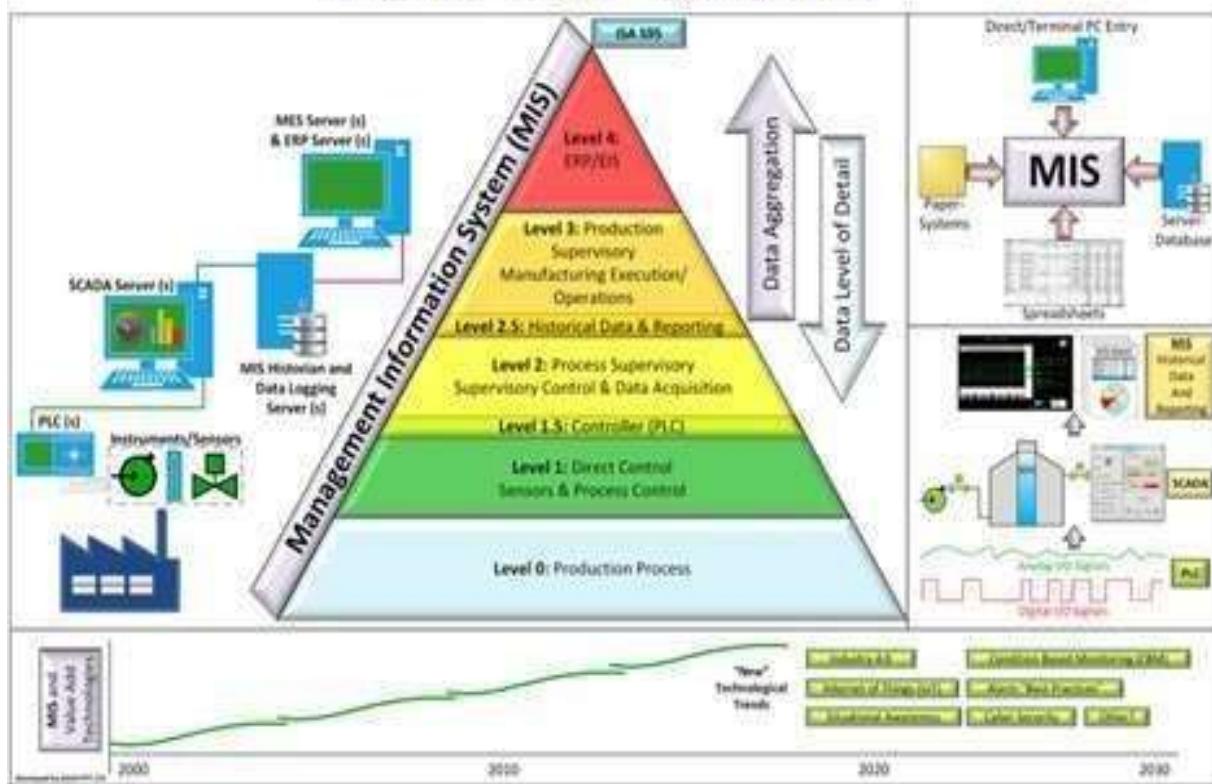
Figure 12-3Join the team

For more information please contact one of the directors, committee members or feel free to visit www.SAIMC.co.za

13 SUMMARY

The SAIMC is a major force within the Automation industry in South Africa with vision, drive and willingness to execute fast.

By joining the SAIMC, you become part of a vibrant organisation that is young but a force to be reckoned with. We continue to change and grow in order to keep up with the fastest growing Industry this world has ever seen, an industry that is infiltrating every thinkable discipline and changing it.