

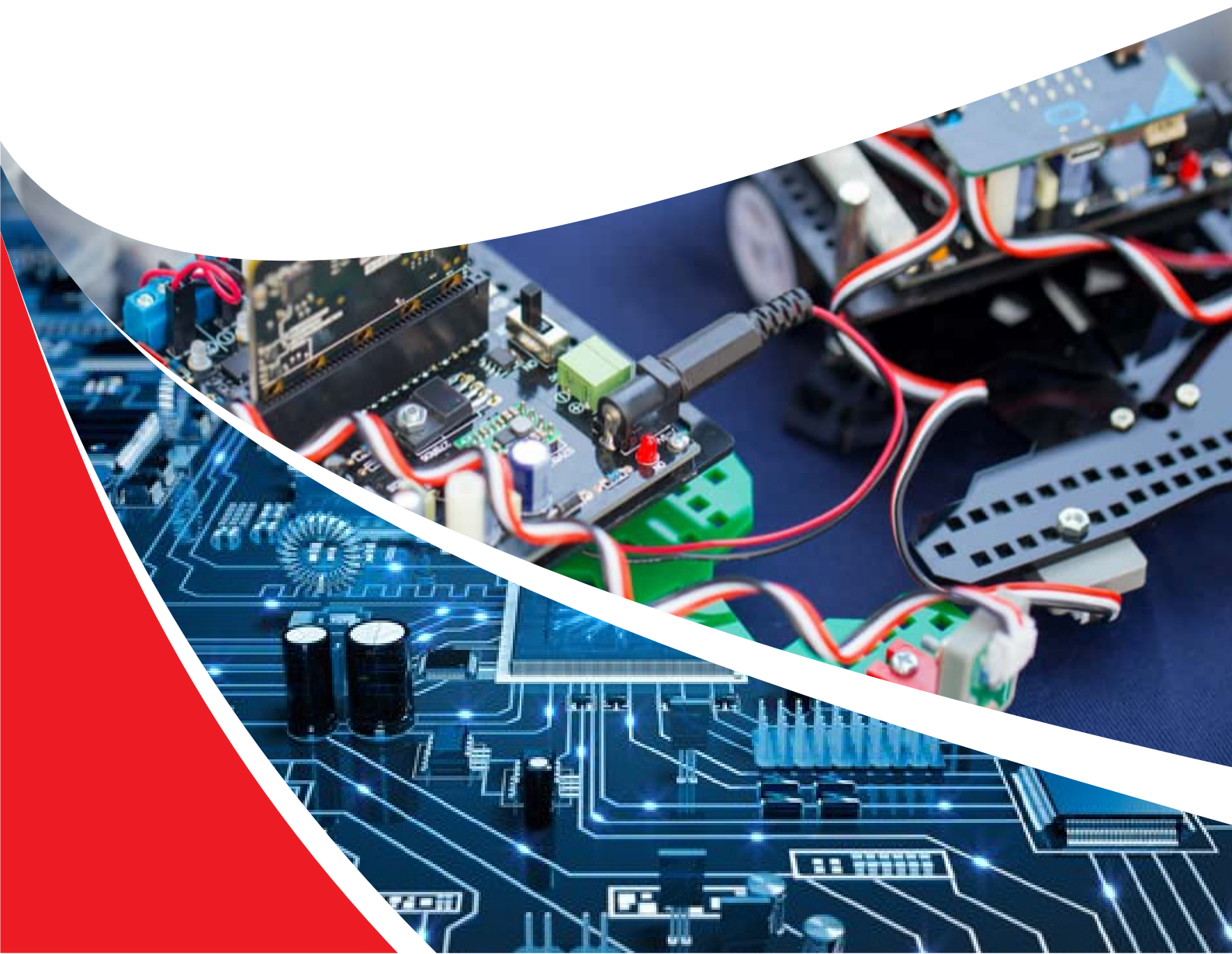


BRAYSONS<sup>®</sup>  
ENGINEERING  
CONS LTD

ELECTRICAL INSTRUMENTATIONS & CONTROL ENGINEERING  
SOFTWARE ENGINEERING

# Company Profile

[www.braysonseng.co.ke](http://www.braysonseng.co.ke)

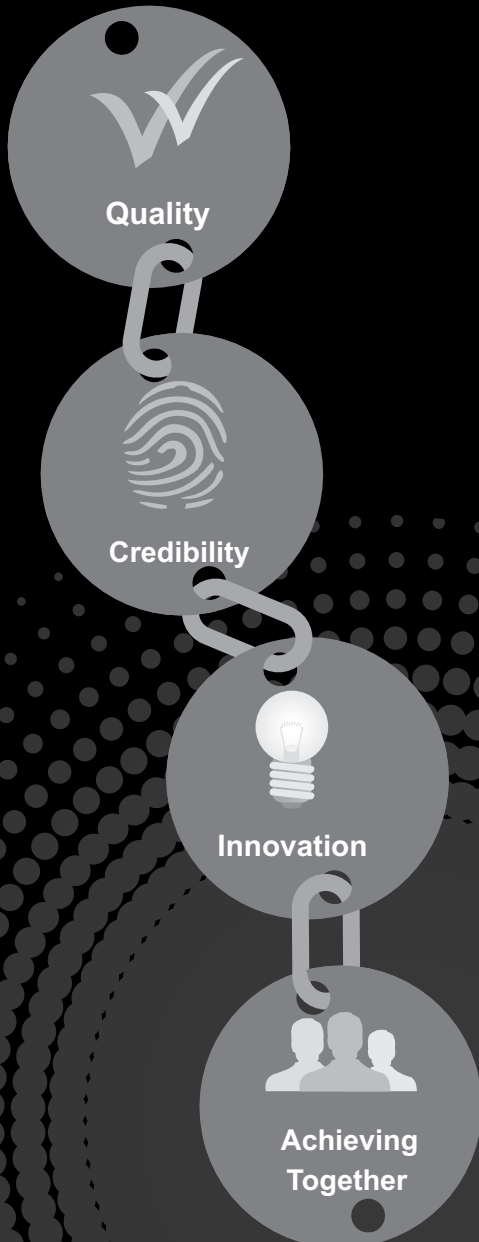






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ENGINEERING  
CONS LTD

ELECTRICAL INSTRUMENTATIONS & CONTROL ENGINEERING  
SOFTWARE ENGINEERING



**We provide engineering**

**and project management**

**services to the corporate**

**and industrial sector.**



## OUR VISION

At Braysons Engineering Cons Ltd, our mission is to deliver unparalleled engineering and technological solutions that surpass industry standards. We strive to innovate, design, and execute projects with precision, integrity, and a commitment to excellence.

## OUR MISSION

Our vision at Braysons Engineering Cons Ltd is to be a pioneering force in engineering and technological advancement. We aim to continuously push boundaries, embrace cutting-edge innovations, and set new benchmarks in quality, sustainability, and client satisfaction. Our goal is to be recognized globally for our expertise, reliability, and transformative contributions to the engineering landscape.

## OUR VALUES

Braysons Engineering Cons Ltd is committed to good corporate governance driven by fairness, honesty, integrity, transparency and accountability in all our business dealings.

## BACKGROUND

Braysons Group of Companies have been working on projects together by supplying engineering, design, corporate branding, general supplies, drafting and project management services to clients in their respective disciplines of engineering and other fields over the past three years and have excelled through the provision of honest, unbiased engineering solutions to the industry.

## About Braysons Engineering Cons Ltd

Braysons Engineering Cons Ltd, founded in 2019 by Eng. Steve Biko Omondi, is a cutting-edge company specializing in Microprocessor Technology, Instrumentation and Electronics Engineering, and Software Engineering.

The resource personnel working in the company have been consistently providing reliable support services and consultancy to a wide variety. It is a company where professionals from both technical and functional field group together with an objective of providing appropriate business solutions.

We constantly strive to be a leading technology firm with profound business and functional knowledge. The key to the company's success is to maintain a close working relationship with the clients through ensuring the best possible solutions to their needs; to establish and maintain a thorough knowledge and understanding of client's objective and help them maximize the benefits.

has swiftly gained prominence in the market by consistently delivering engineering solutions that transcend conventional boundaries. Our projects have garnered recognition for their sophistication, reliability, and contribution to technological progress. We have positioned ourselves as a go-to partner for organizations seeking transformative solutions in the rapidly evolving landscape of technology.

## BUSINESS APPROACH

**Braysons Engineering Cons Ltd** endeavour to provide clients with a complete structured solution for the execution of projects.

In recognition of our clients unique needs we provide special attention to detail and lateral problem solving skills to ensure that we provide the technical innovation that unlocks superior economic value for our customers.

When it comes to delivering a project on time and within the required budget, our qualified and experienced personnel take nothing for granted and make every effort to surpass all expectations



## BRAYSONS ENGINEERING CONS LTD

offers the products and services specifically designed to provide the most efficient solution to meet our client's needs, be they studies or execution phase projects.

## OUR SERVICES

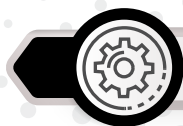
The key to our success is the quality and experience of our people, structured systems engineering approach and the use of the most suitable tools and techniques to provide the required project deliverables.

Our services include but are not limited to the following:



### Electrical Design and Engineering

Design, plan and develop electrical systems for various sectors to ensure safety and compliance with relevant standards and regulatory requirements.



### Control and Instrumentation Design and Engineering

Design, plan and develop instrumentation and control automation systems for process industry, as well as plant communication systems.



### Project Management & Quality Control

Manage construction projects from initiation and planning phase to project close-out to ensure project deliverables as completed on time, budget and according to require and according to requir ements.  
Technical and acceptance inspection of equipment.





### Embedded Systems

Automobiles | Mobile phones | Industrial machines |  
Medical equipment



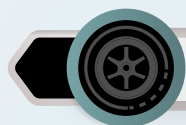
### Telecommunication Services

Cellular Mobile Services | Radio Paging Services |  
Fixed Line Services | Cable Services | Satellite Services |  
DTH Services



### Asset & Machinery Maintenance

Ensuring your clients do not experience unplanned downtime due to equipment breakdown is crucial. Our regular machinery maintenance service helps reduce downtime resulting from operational malfunctions.



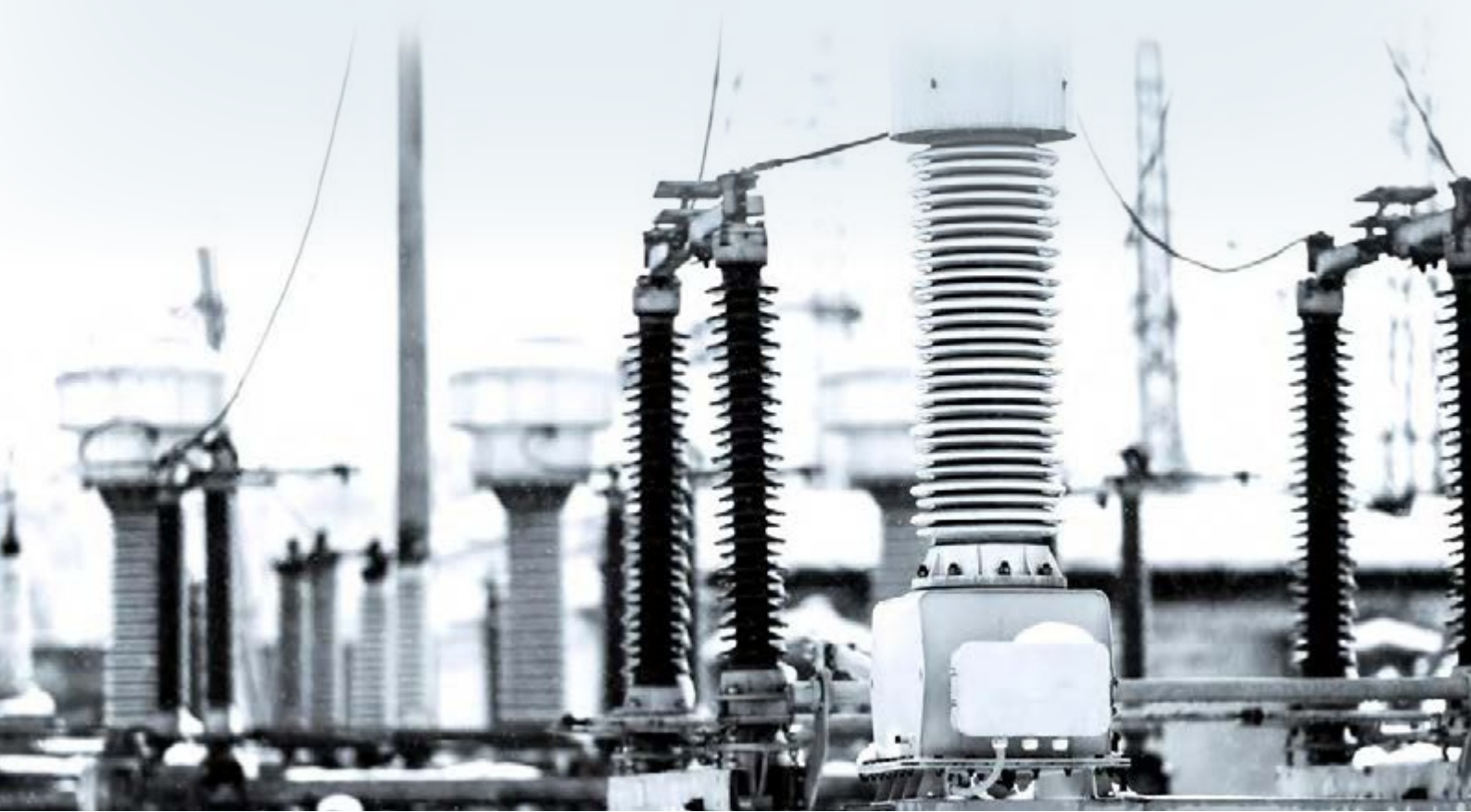
### 3D Modeling & Rendering/Animation Effect Services

Wireframe modeling | Surface modeling | Solid modeling |  
CAD modeling | NURBS | SubD | Scans/Photogrammetry



We guarantee  
excellence and  
innovation in  
every design.

Let us help  
you invest in  
sustainable  
infrastructure  
with our  
technical  
expertise..



# Overview

## » Overview and Application Areas

Our team consists of Project Management & Quality Control, Electrical Design And Engineering, Control - Instrumentation Design & Eng, Embedded Systems, Asset & Machinery Maintenance, 3D Modeling & Rendering Services and has vast experience in data and software solutions implementation in offshore industries. With our customer centric approach we are sure to deliver the solutions, which always exceeds customers' expectations.

Our core expertise lies in bridging the needs of organizations globally. Our team has a deep understanding of the working practices, cultural difference, vendor relationships, organization structures, statutory issues, and so on of many nations globally.

There are a number of differences in each of these practices that we have bridged to successfully enable our objectives. By providing this bridge or infrastructure we have eliminated the need for our customers to go through the cost-prohibitive learning curve involved and trying to overcome the challenges on their own.

Write to us on [info@braysonseng.co.ke](mailto:info@braysonseng.co.ke) to find how we can assist you in your special requirements.

## » Why Us?

Our workforce has been the strong pillar of our organization, which takes painstaking efforts to offer not only impeccable and useful products to the clients, but also make them experience fair business practices.

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Our team consists of hard working and competent professionals, who are selected after a close scrutiny of their academic excellence, practical application of theory and proficiency. These diligent professionals exploit their skills to the utmost and optimally utilize the available resources to offer a world class product range.

Furthermore, in order to keep these experts in constant touch with the changing and developing technology, we conduct various training & discussion sessions and research based studies for them. The workforce in our organization comprises:

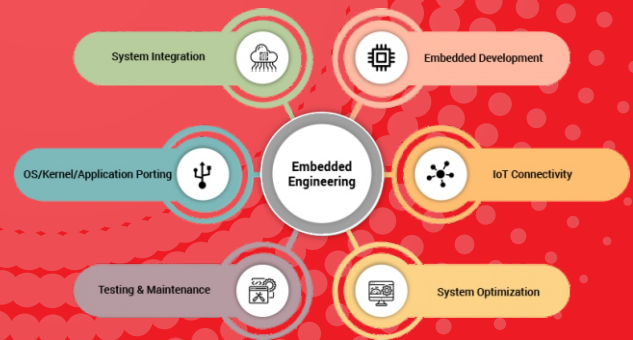




## » Electrical Engineering Services

- Generation and approval of technical specifications and statement of works for equipment and installation
- Generation of bills of quantities and cable schedules for installation
- Generation and approval of design criteria and philosophies
- Design calculations for cable selection, lighting, and electrical distribution
- Engineering, Design and drafting of: -
  - Single line diagrams
  - Area and facilities electrical layouts for equipment, lighting, small power & cable routing
  - Distribution and control panel layouts
  - Electrical schematic and connection diagrams for distribution, control, interfacing and interlocking
  - Cable connection block diagrams
  - Cable termination diagrams
  - Equipment installation and mounting arrangements
- Provision of electrical motor & load list
- Provision of an electrical power requirement estimation and cost
- Provision of an electrical load flow and short circuit analysis
- Provision of protection and grading relay settings
- Provision of commissioning services for the

## » Embedded Engineering & Firmware Development Services



BRAYSONS has in-depth expertise in embedded engineering services including platform development, OS/Application porting, Wired/Wireless connectivity, and overall system tuning. Over the past decade, the team has expertise in firmware development services that successfully work with some of the giants of the industries, who in turn have provided cutting edge solutions to their end customers relying completely on us. We offer complete embedded software services to our customers from different industries to achieve faster time to market with lower upfront investment.

- Performance optimization for low powered battery operated applications
- Embedded cloud integration agent, SDK/middle layer development
- Linux Yocto, FreeRTOS, Android, and MbedOS porting/hardening
- Multimedia processing, edge processing, and device virtualization
- Embedded system integration
- Microcontroller/RTOS based firmware development
- Board bring-up and BSP development
- OTA Programming
- Device driver/Interface development
- Wireless connectivity based on Wi-Fi, BLE Mesh, Zigbee, Z-Wave, Thread, and WAN technologies like LTEM, NBIoT, 4G LTE and 5G





## » Project Management & Quality Control Services

At Braysons Engineering Cons Ltd, our Project Management & Quality Control services are the cornerstone of our commitment to delivering projects with precision, efficiency, and uncompromising quality. We specialize in overseeing projects from inception to completion, ensuring adherence to stringent quality standards and meticulous management of resources.

### Service Area:

#### Comprehensive Project Oversight

Our service encompasses end-to-end project management, from initial planning to execution and delivery. We meticulously oversee all project phases, ensuring seamless coordination between different stakeholders and teams.

#### Risk Management

Identifying and mitigating risks is central to our approach. We conduct thorough risk assessments, develop mitigation strategies, and proactively address potential challenges to prevent disruptions and delays.

#### Quality Control Measures

Quality is non-negotiable in our projects. We implement robust quality control processes, conducting regular inspections, audits, and evaluations to maintain the highest standards of workmanship and deliverables.

#### Resource Allocation and Optimization

Efficient resource allocation is key to project success. We optimize resource utilization, ensuring the right resources are allocated at the right time, maximizing efficiency while minimizing waste.

## » Control & Instrumentation Engineering Services

- Generation and approval of technical specifications and statement of works for equipment and installation
- Generation of bills of quantities and cable schedules for installation
- Generation and approval of design criteria and control philosophies
- Engineering, Design and drafting of: -
  - Data communication network diagrams
  - Voice communication network diagrams
  - Piping and Instrumentation Diagrams (P&IDs)
  - Instrumentation loop and hook-up drawings
  - PLC and instrument equipment layouts, schematic and connection diagrams
  - Equipment installation and mounting arrangements
- Provision of instrument lists
- Provision of PLC control philosophy, I/O schedules and programming requirements



## » Asset & Machinery Maintenance

At Braysons Engineering Cons Ltd, our Asset & Machinery Maintenance services are geared towards ensuring the continuous operation, reliability, and longevity of critical assets and machinery across various industries. We specialize in implementing comprehensive maintenance programs aimed at minimizing downtime, optimizing performance, and extending the lifespan of equipment.

### Service Area:

#### Scheduled Inspections and Maintenance

Our service starts with comprehensive inspections and scheduled maintenance routines. We conduct detailed assessments, perform necessary checks, and carry out maintenance tasks as per a predetermined schedule.

#### Predictive Maintenance Analysis

Leveraging predictive maintenance techniques, we analyze data and monitor equipment health using sensors and advanced analytics. This proactive approach helps in identifying potential issues and taking preventive action.

#### Emergency Repair Services

In the event of breakdowns or emergencies, our responsive team swiftly attends to the issue, diagnosing problems and executing repairs efficiently to minimize downtime and restore operations.

#### Performance Monitoring and Reporting

We continuously monitor equipment performance, collecting and analyzing data to generate reports. These reports provide insights into equipment health, performance trends, and recommendations for optimization.

## » Software Engineering

BRAYSONS delivers end-to-end software development services from concept to code and development to deployment. Our full stack software development services include custom software & application development, cloud-based enterprise & web application development and connected mobile application development. With our experience in next-generation software solutions and services, we help drive digital transformation in connected solutions, cloud engineering services and software quality engineering. We assist our clients in selecting the most competent and cost-effective platform to build their applications.

- Cloud-based custom software application development, integration, migration, and maintenance
- Development of connected mobile applications on iOS, and Android platforms using native and cross-platform technologies
- Certified and trained engineers on well-known clouds such as AWS, Google, Azure, Ayla, Everything, etc
- DevOps workflow automation, continuous integration and deployment pipeline, microservices architecture and dockerization
- Automated and manual software testing services for software and products
- Artificial Intelligence & Machine Learning software services for enterprises
- UI/UX design, development, and enhancement



## » 3-D Modeling / Drafting Services

### 3-D Modeling

Braysons Engineering Cons Ltd delivers 3D Modeling services to multi-disciplinary engineering fields such as Piping, Mechanical, Civil, Structural, Electrical and Instrumentation. We offer these services using the latest tools such as SP3D, AVEVA PDMS, Intergraph PDS, Bentley AutoPLANT and Intergraph CADWorx depending on the volume and size of the plant or equipment under construction.

### 2-D Drafting Services

#### AutoCAD Migration Services

Braysons delivers high quality AutoCAD Conversion Services, helping you to convert Paper, PDF and scan based drawings into accurate and editable AutoCAD drawings. We manually re-draft in AutoCAD all the necessary conversions, making reference to the original hard-copy or raster-based drawings.

Being familiar with global codes of practice, Braysons provide AutoCAD Conversion services globally. Our experts have the capacity and skills to handle drawings from all the engineering stream.

#### AutoCAD CONVERSION

Images to AutoCAD  
Paper to AutoCAD  
Microstation to AutoCAD  
PDF to AutoCAD  
Raster to AutoCAD

#### AutoCAD MIGRATION

AutoCAD to 3D  
AutoCAD to Solidworks  
Catia V4/V5 to Solidworks  
AutoCAD to Revit  
Navisworks to PDMS/PDS/SP3D

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## CLIENTS & REFERENCE PROJECTS

Our project pipeline is exciting and has included work for the following distinguished clients:



CRAFT YOUR ADVENTURE



GROUNDED  
PURE • CLEANING • POWER



Commission on Administrative Justice  
(Office of the Ombudsman)  
*Hata Mnyonge Ana Haki*



# Organizational Chart





The background of the image is a grayscale photograph of an industrial facility, likely a refinery or chemical plant, featuring complex piping, storage tanks, and structural steel. Overlaid on this is a central white circle with six colored, organic-shaped spokes radiating outwards. Each spoke contains a service category in white uppercase text. The entire graphic is framed by decorative wavy lines in orange, white, and red at the top and bottom edges.

# **OUR KEY SERVICES**

**INSTRUMENTATION  
CONTROL**

**PROJECT  
MANAGEMENT**

**ELECTRICAL &  
INSTALLATION**

**ASSET & MACHINERY  
MAINTENANCE**

**3D MODELLING**

**EMBEDDED  
SYSTEMS**







# Contacts

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## Find us online

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 [facebook.com/BRAYSONSENG](https://facebook.com/BRAYSONSENG)

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