



**EM Engineering Solutions LLC**  
Innovators of Turn-Key Engineering Solutions

# Contract Timeline Overview

Your guide to our Engineering Service Agreement

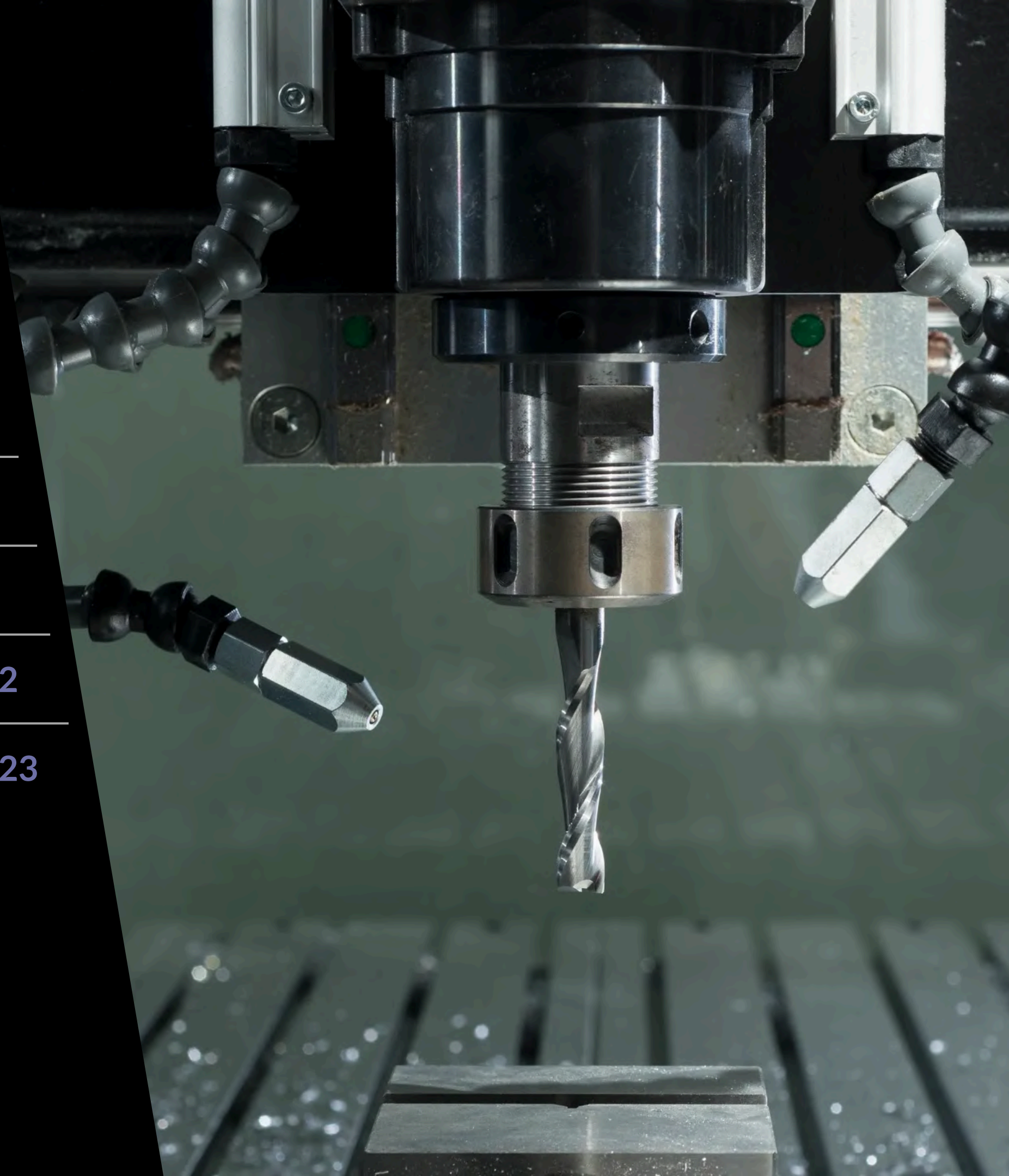
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Revision: V2.3.8 Last Updated: 04/15/2025



# AGNEDA

The Contract Engineering Design Process	3
Where are you now?	5
Why an ESA?	6
What is a Statement of Work Document?	7
Our Statement of Work Document	8
Our Next Steps Together	22
Contact Information	23



# THE CONTRACT ENGINEERING DESIGN PROCESS

How EM supports you throughout the entire process.

Often Identified before EM, EM refines and supports the development of these processes.

Defined via communication with EM, Direct approach between both parties.

1

## Ideation

EM assists with developing a problem statement, identifying the issue at hand that the deliverables are trying to solve, and how it can be solved using turnkey contract engineering design solutions.

2

## Research

Using a developed use case and problem statement, EM assists with researching proven, open domain techniques, in addition to EM's internal researched solutions to develop the solutions needed to create the deliverables.

3

## Conceptualization

EM assists with creating visual concepts for deliverables, aiding in design perception and conception during the performance of contract engineering services. Proper conceptualization leads to less lead time in design production.

4

## Feasibility Assessments

Using research and visual concepts, EM works to assist in running feasibility assessments, determining if the specific deliverable will create a proper turnkey engineering solution to the given use case and problem addressed.

5

## Establishing Design Requirements

EM and client works together to establish what geometries, tolerances, materials, and specifications are required to create the deliverables of the SOW, creating concept drawings to aid in understanding.

6

## Quotation

EM (to the best of its ability) provides a quotation, using proven engineering techniques, for the estimated costs of executing a Statement of Work. The resulting security deposit is a percentage of this original quote.



# THE CONTRACT ENGINEERING DESIGN PROCESS

How EM supports you throughout the entire process.

Direct Approach  
Continued

7

## SOW Generation & Due Processing

Formations of formal deliverables, setting the standards and policies to which each respective party is obliged to follow during the duration of a Statement of Work. Processing of security deposit to initiate the start of contract engineering services.

Start of Contract Engineering Services. Creating  
turnkey engineering solutions.

8

## Preliminary Design

Creating contract deliverables through mechanical / electrical design software, Utilizing CAD / ECAD & FEA / SPICE / EMAG simulators to engineer and analyze geometries, design parameters, and applied materials to create turnkey engineering solutions.

9

## Rapid-Prototyping & Testing

EM uses rapid-prototyping techniques in additive manufacturing in addition to partnering with manufacturing vendors to create rapid-prototypes, allowing geometries to be tried and tested, resulting in a more finished turnkey product.

10

## Detailed Design

Using design data from rapid-prototypes and detailed simulations, EM refines preliminary designs using DFM/DFA/DFT principles to narrow in on a final design, ready for production, providing a sustainable product life cycle, and properly addressing the use case.

11

## Production Planning

EM works with their network of manufacturing partners and vendors, assessing each deliverables' production requirements, receiving quotes, and creating documents, machines, and procedures needed to complete production

12

## Production & EOL Refinements

Production of contract deliverables, scaling to full scale production as applicable. EM oversees the production process ensuring standards and practices. EM provides EOL refinements across the product life cycle as applicable.

EM works with manufacturing  
partners in producing deliverables

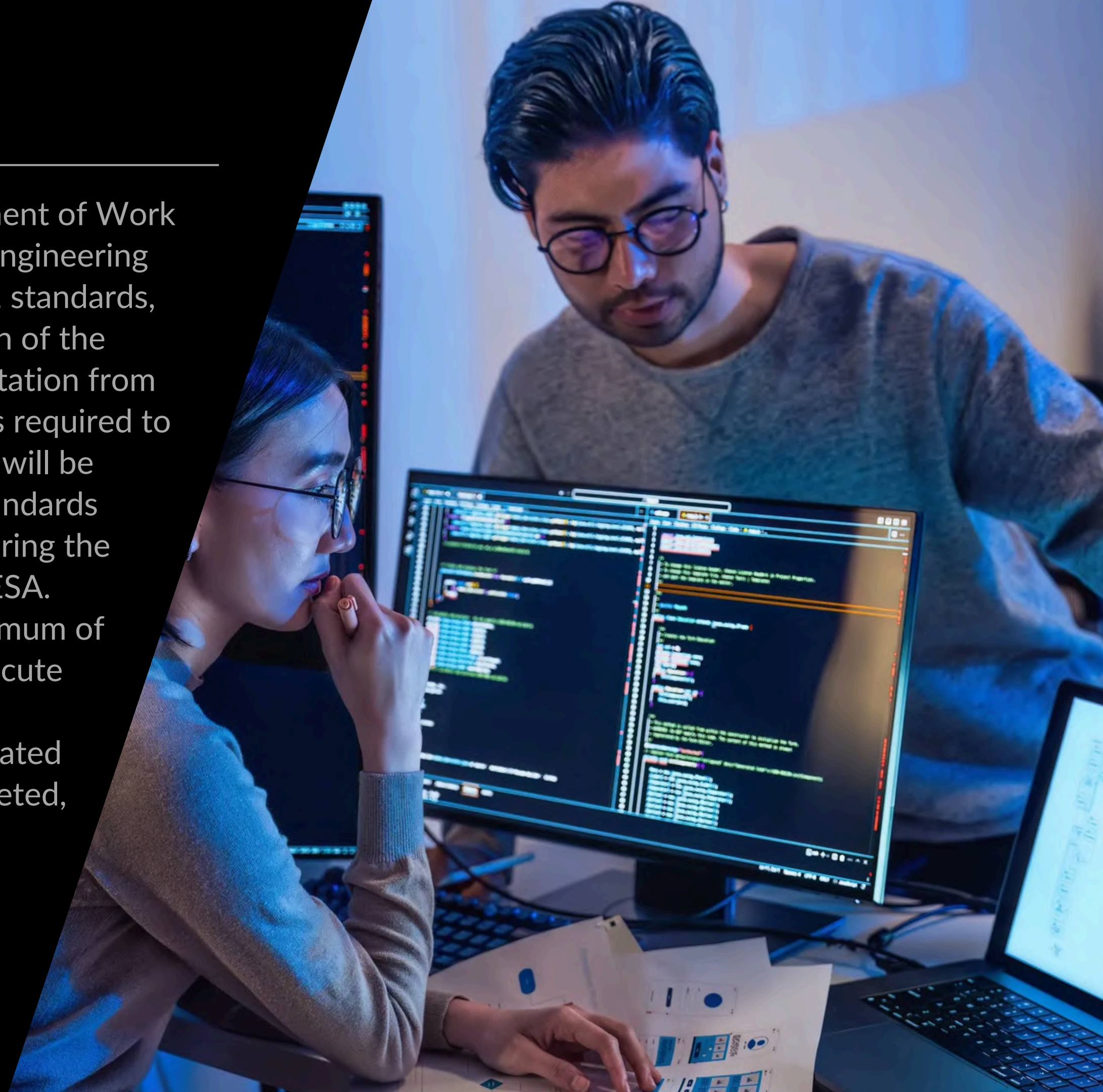


# WHERE YOU ARE NOW

As of this presentation, you are in the Quotation, Statement of Work Generation, and Due Processing stages of the contract engineering process, where both parties work to set the deliverables, standards, and contract parameters to be abided by in the execution of the Statement of Work. In this stage you are provided a quotation from EM for the performance of contract engineering services required to create the deliverables of the SOW. To which, the SOW will be developed as a result of said quotation, providing the standards and policies each respective party is obliged to follow during the performance of contract engineering services under an ESA. The required security deposit has a minimum 10% (Maximum of USD 2,000.00) deposit on the provided quotation to execute the SOW. EM will credit the security deposit to the each invoice until depleted. In the case that an SOW is terminated or completed before the security deposit balance is depleted, the remaining balance will be returned to the client.

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# WHY AN ESA?

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The goal of an engineering service agreement is to outline the standards and practices both parties will abide by during the performance of contract engineering services, establishing liabilities and protections for both parties where necessary, defining obligations, property rights, default standards, acceptance & rejection, and delivery liabilities. Most importantly, an engineering service agreement allows for the creation and execution of Statements of Work between EM and a business relationship, the formal process required for performing contract engineering services.

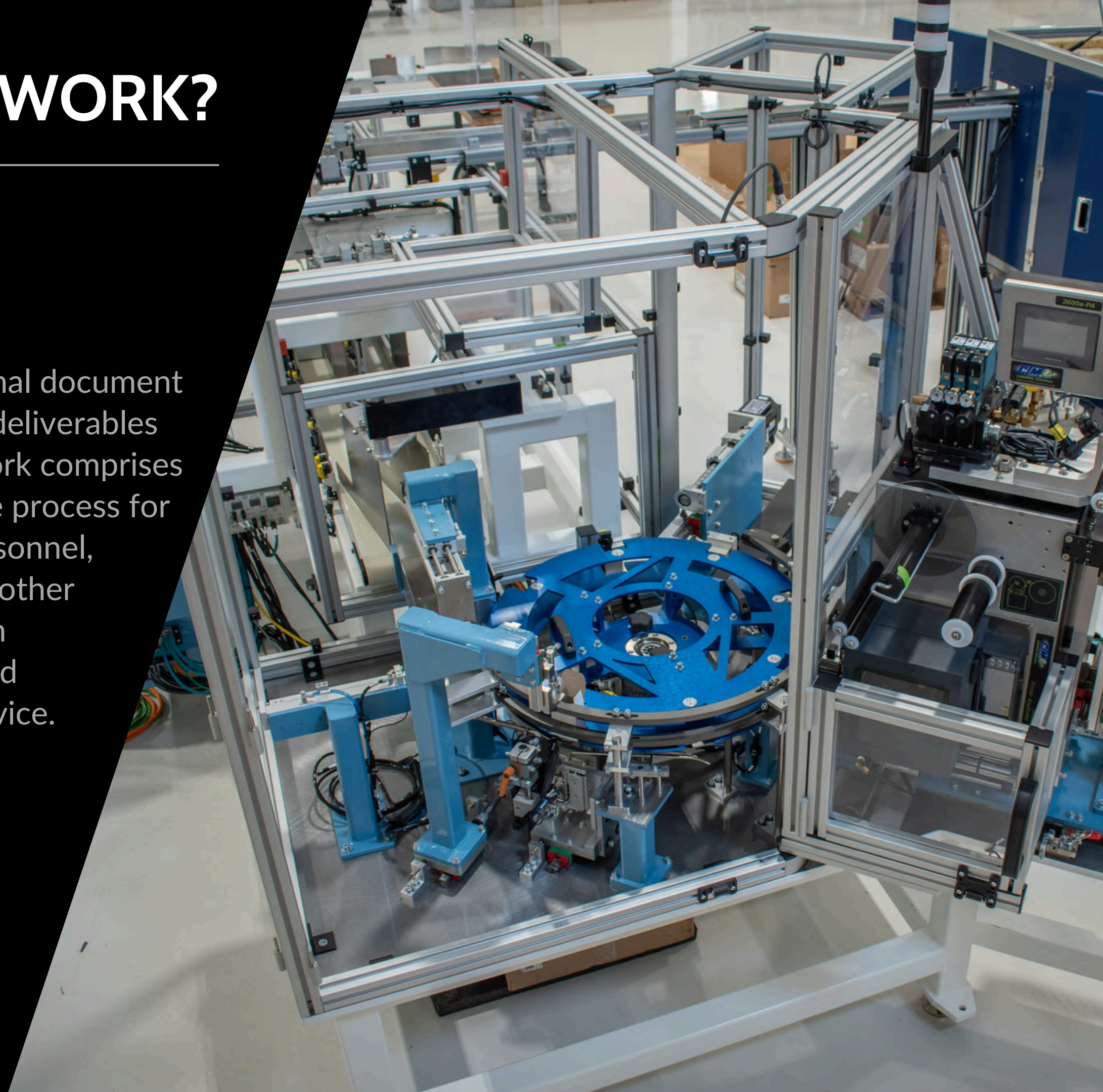




# WHAT IS A STATEMENT OF WORK?

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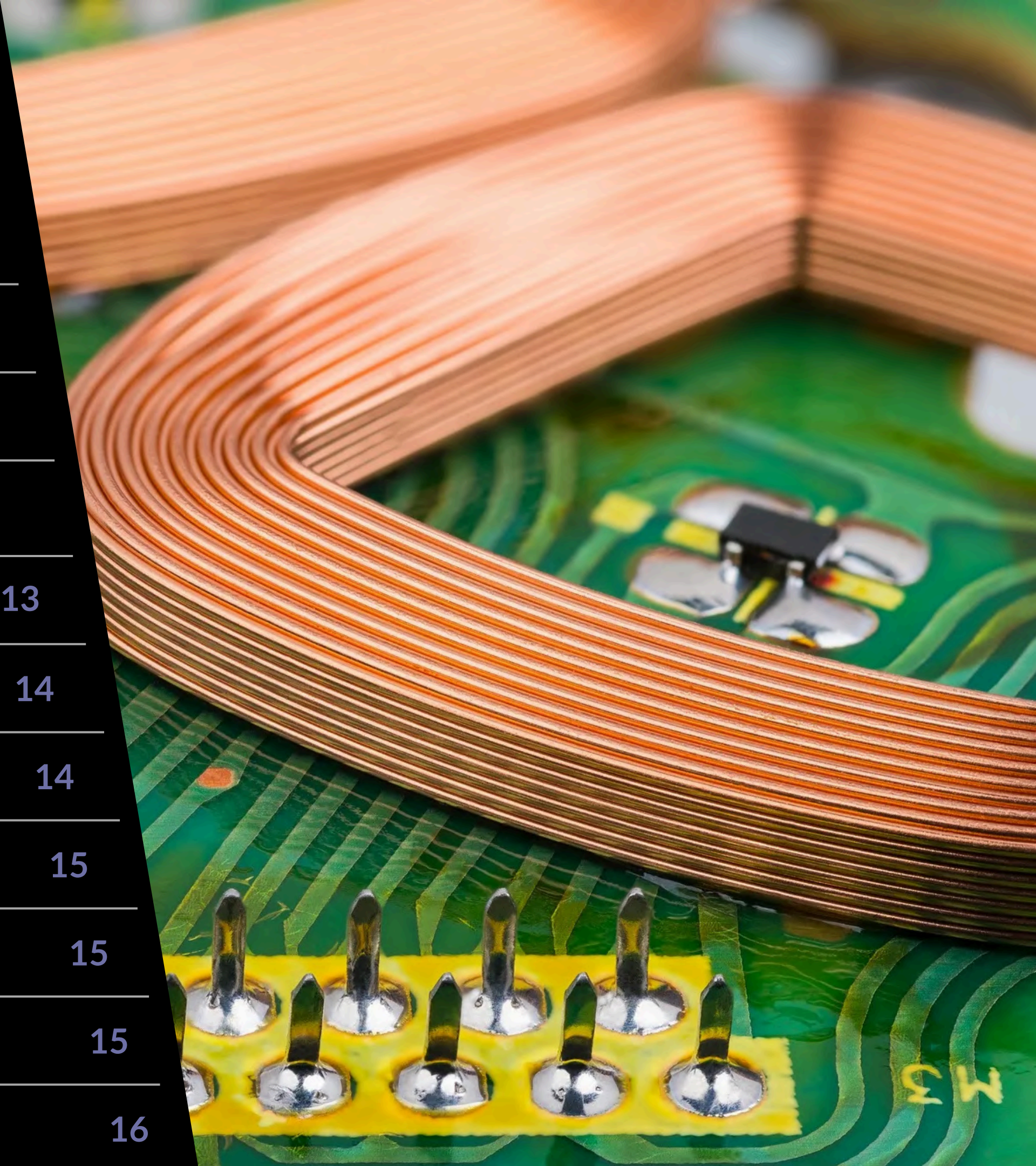
A Statement of Work is the controlled, confidential, formal document between EM and contracting party required to execute deliverables using contract engineering solutions. A Statement of Work comprises all conceivable details that a project harbors and sets the process for parameters, like dates, deadlines, budget, processes, personnel, acceptance / rejection criteria, materials, resources, and other necessary parameters to be applied to the deliverables in question. Every Statement of Work follows the terms and conditions set by the signed ESA and EM's Terms of Service.





# TABLE OF CONTENTS

Article I - Introduction	
Contact Persons & Personnel	11
Project Details	11
Article II - Scope of Work	
Objectives	13
Budget	14
Resource Allocation	14
Dates & Deadlines	15
Location	15
Changes to Services	15
Extraneous Tasks	16





# TABLE OF CONTENTS

## Article III - Definitions

*Any defined terms are listed hereunder*

## Article IV - Deliverables

*The deliverables of the SOW are listed hereunder.*

## Article V - Compensation & Execution

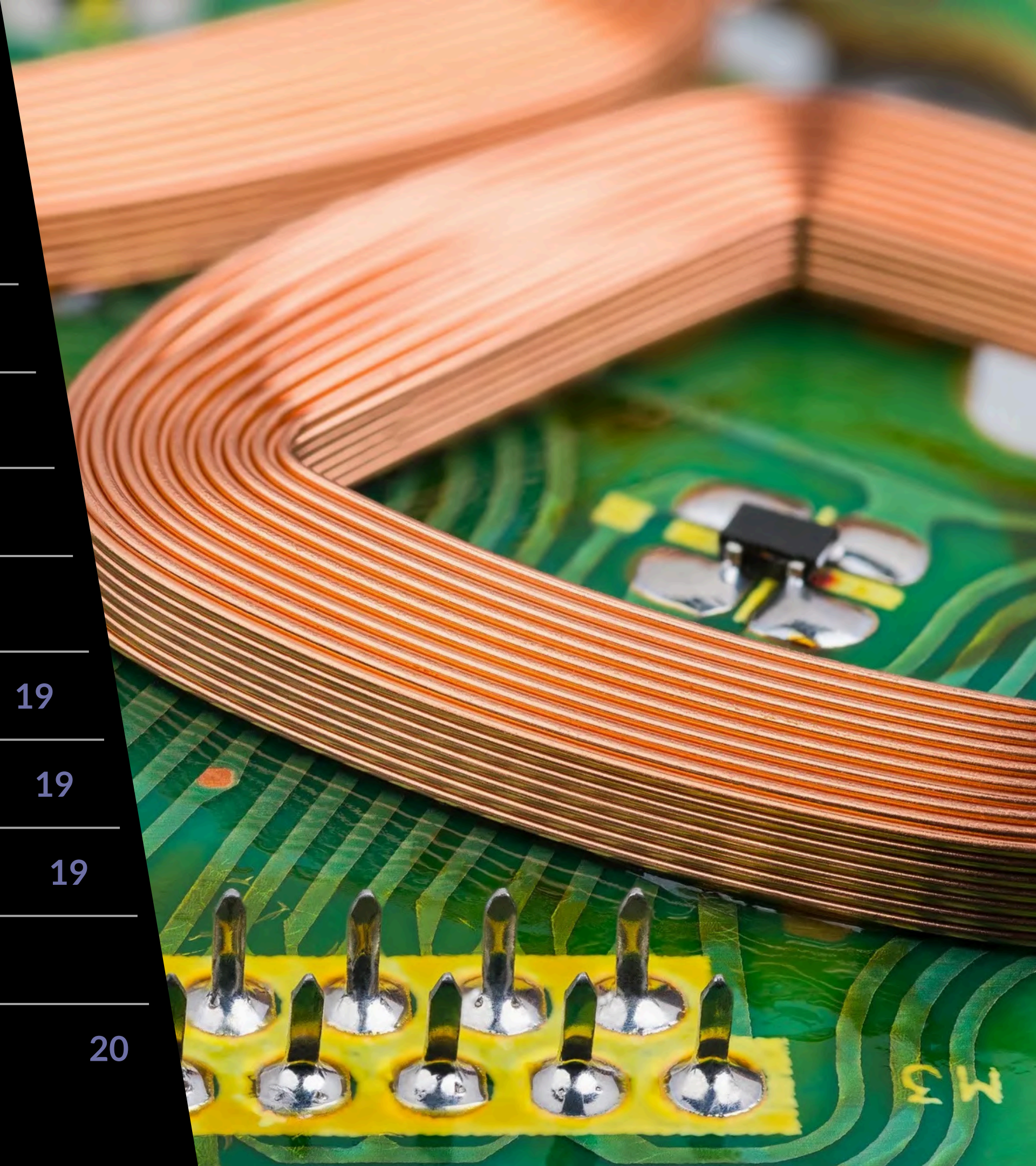
Compensation for Services	19
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Shipping & Packaging	19
----------------------	----

Statement of Work Execution	19
-----------------------------	----

## Article VI - Other Provisions

Notice of Subcontracting & Consultancy	20
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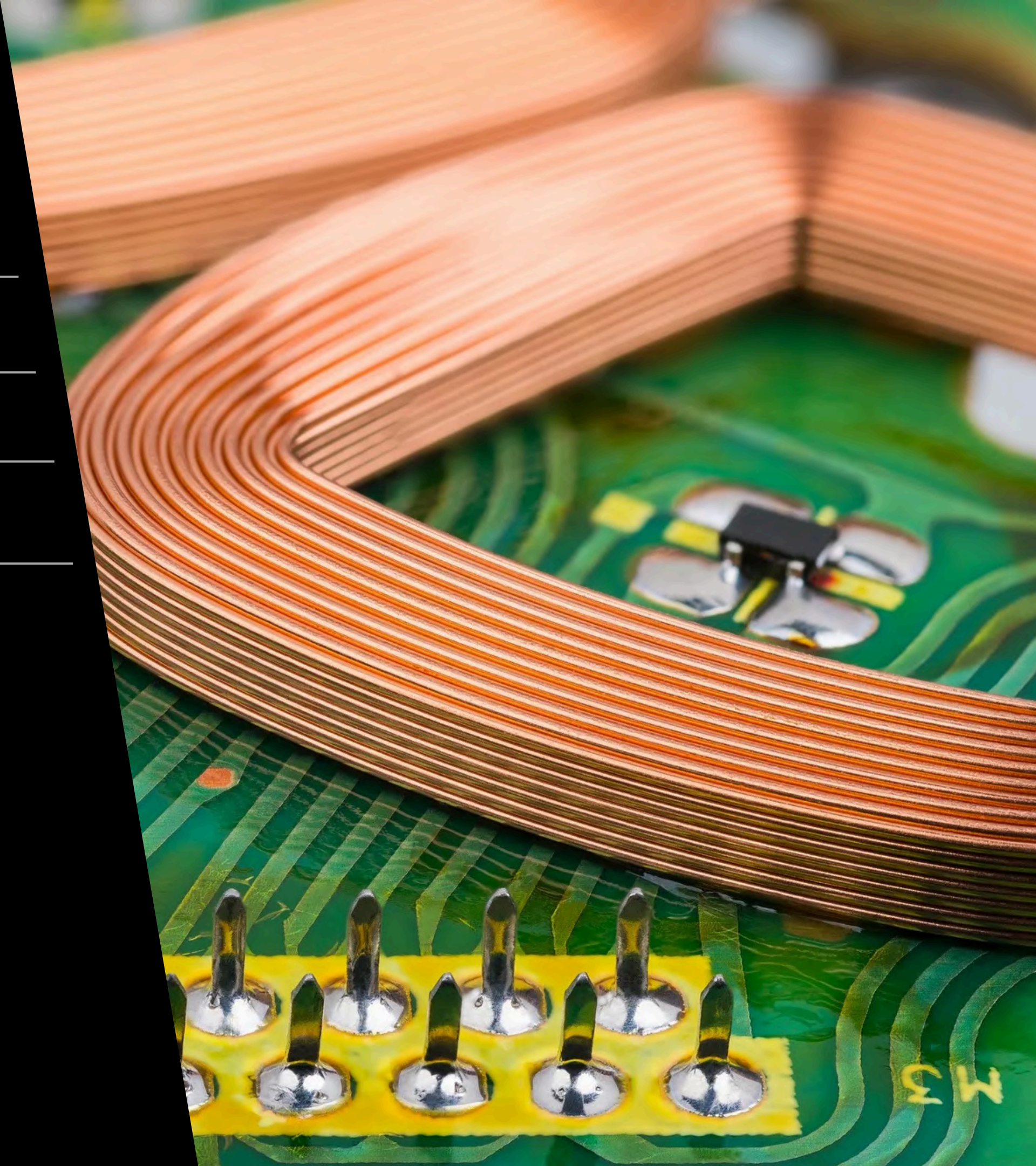


# TABLE OF CONTENTS

Acceptance / Rejection Criteria	20
Warranty	20
Concluding Notes	20

## Article VII - Closure

*Signature & Approval of the Statement of Work*





# ARTICLE I - INTRODUCTION

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## Contact Persons & Personnel

In this section, all contact persons for the contracting party and all EM personnel pertinent to the execution of the statement of work are to be listed with their Name, Title, Function, Email, Phone (Work and Mobile), Billing and Shipping Addresses included.

## Project Details

In this section, all high-level project details involving the project background and purpose are recorded and incorporated into the design methodologies utilized in contract engineering services.

## Sample Questions

- What is this project and why was it created?
- What is the history, from a company and developmental perspective of this project?)
- Is this project a part of a larger goal, ecosystem, or product line?
- What is the ultimate application of this project?
- What purpose does EM bring to the execution of this project?





# ARTICLE I - INTRODUCTION

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## Sample Questions (Cont.)

- How can EM help bring this project to a new level of success?
- What are the long-term production and business-related goals of this project?





# ARTICLE II - SCOPE OF WORK

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## Objectives

In this section, all high-level qualitative and technical objectives are recorded and incorporated into the design methodologies utilized in contract engineering services.

## Sample Questions

- What qualitative goals/objectives should the end product meet?
- What responsibilities, obligations, and liabilities do both EM and YOUR ORGANIZATION hold in the completion of this project beyond the scope of EM's Terms of Service or Engineering Service Agreement?
- What technical specifications must the end product meet?
- What tolerances or specifications must the end product hold?) (What certifications and standards must the product be upheld to?





# ARTICLE II - SCOPE OF WORK

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## Budget

In this section, the overarching budget of the project is addressed, either represented via stages, deliverables, milestones, or as a total maximum budget. Additionally, the anticipated costs from both parties are addressed; Which party will pay for named explicit costs?

## Resource Allocation

In this section, the resources expected to be provided by each party are included for documentation purposes. For the contracting party, this may include Documentation, Files, Schematics, Physical Equipment, or any other property pertinent to the execution of a deliverable or the Statement of Work in its entirety. For EM, all resources, mostly included applicable services such as CAD, Simulations, Consulting, or other services are included with any other manufacturing or testing related inclusions provided.





# ARTICLE II - SCOPE OF WORK

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## Dates & Deadlines

In this section, the overarching timeline for the period of performance of contract engineering services necessary to develop the deliverables in the SOW is addressed, citing specific milestones or stages (if applicable) and their pertinent parameters. Additionally, the prioritization of certain tasks, deliverables, or services is addressed, setting the scope for in what order services are to be provided.

## Location

In this section, the location(s) to which any contract engineering services are to be provided at for any reason or duration are listed and for what parameters they imply.

## Changes to Services

In this section, given that changing standards, tolerances, and other parameters are inevitable and required for the proper implementation of contract engineering services, the foreseeable steps that must be taken to mitigate and/or minimize disruption to business practices and/or deadlines from a contracting party perspective is detailed.





# ARTICLE II - SCOPE OF WORK

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## Extraneous Tasks

Any other extraneous tasks, obligations, responsibilities or resolving details pertinent to the execution of a statement of work are detailed in this section.





# ARTICLE III - DEFINITIONS

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Any terms or keywords needing definition or explanation are defined in this article.





# ARTICLE IV - DELIVERABLES

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All deliverables in a Statement of work are to include the Deliverable's name, its Deliverable ID, description, priority ranking, applicable timeline or stages its included within, qualitative objectives, technical constraints, the budget to be adhered to, anticipated costs from both Parties, all EM personnel required to execute the deliverable, both Party's supplied resources, the location(s) in which contract engineering services is to take place, acceptance / rejection criteria, shipping & handling instructions, any warranties to be included other than the implied, and any other notes. *Excerpted from EM's Terms of Service*





# ARTICLE V - COMPENSATION & EXECUTION

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## Compensation for Services

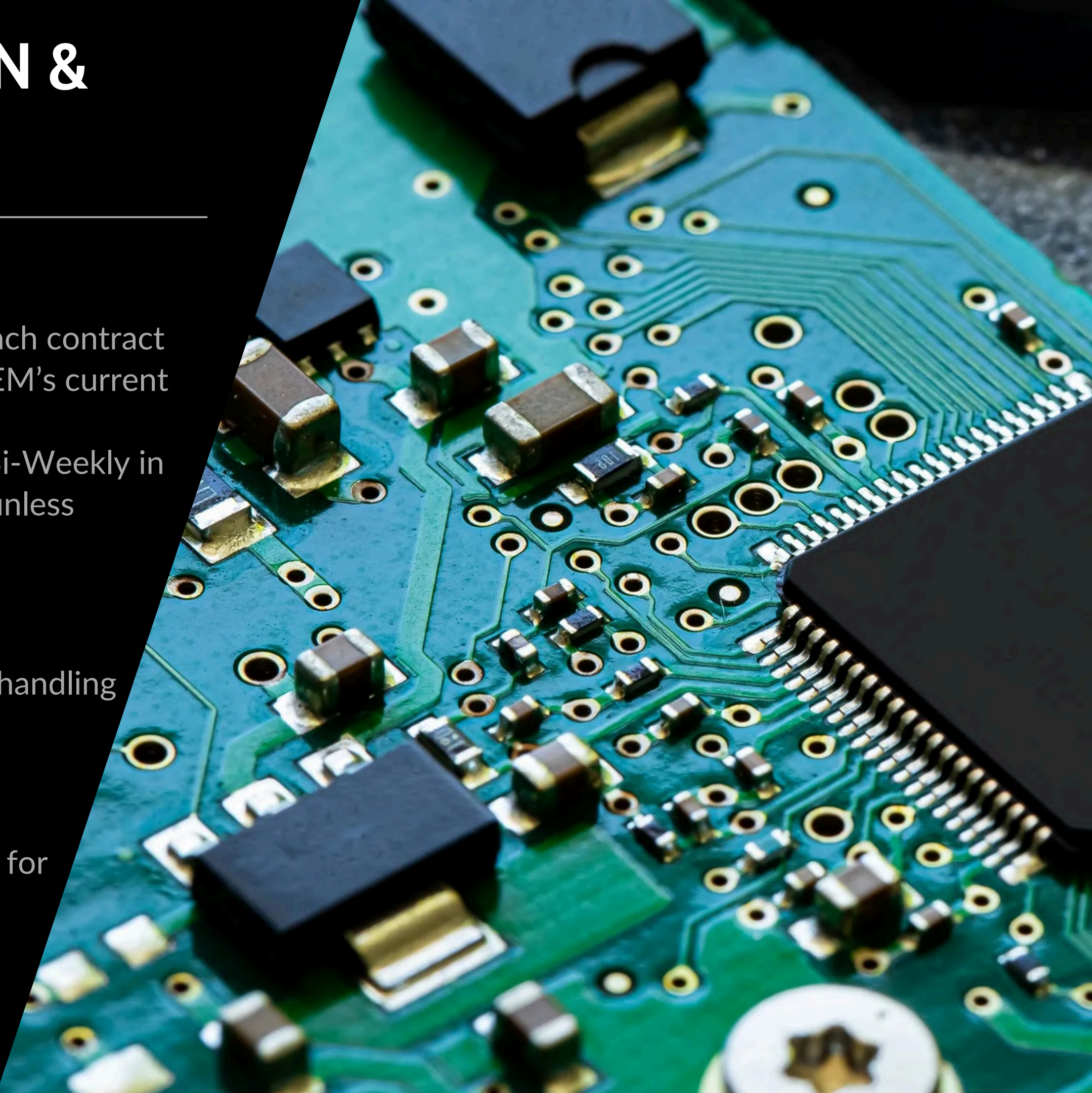
In this section, the list price per contract hour is set for each contract engineering service to be performed in accordance with EM's current pricing guidelines available at <https://emengineeringsolutions.com/solutions>, payable Bi-Weekly in a approved payment method per EM's Terms of Service unless otherwise specified.

## Shipping & Packaging

This section details any necessary shipping or packaging/handling instructions applicable to the project as a whole.

## Statement of Work Execution

This section details the quotation and invoice parameters for the applied security deposit necessary to execute the resulting Statement of Work.





# ARTICLE VI - OTHER PROVISIONS

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## Notice of Subcontracting & Consultancy

This section provides notice of EM's ability to subcontract and consult should it not be able to complete the work requested to complete a deliverable as specified per EM's Terms of Service.

## Acceptance / Rejection Criteria

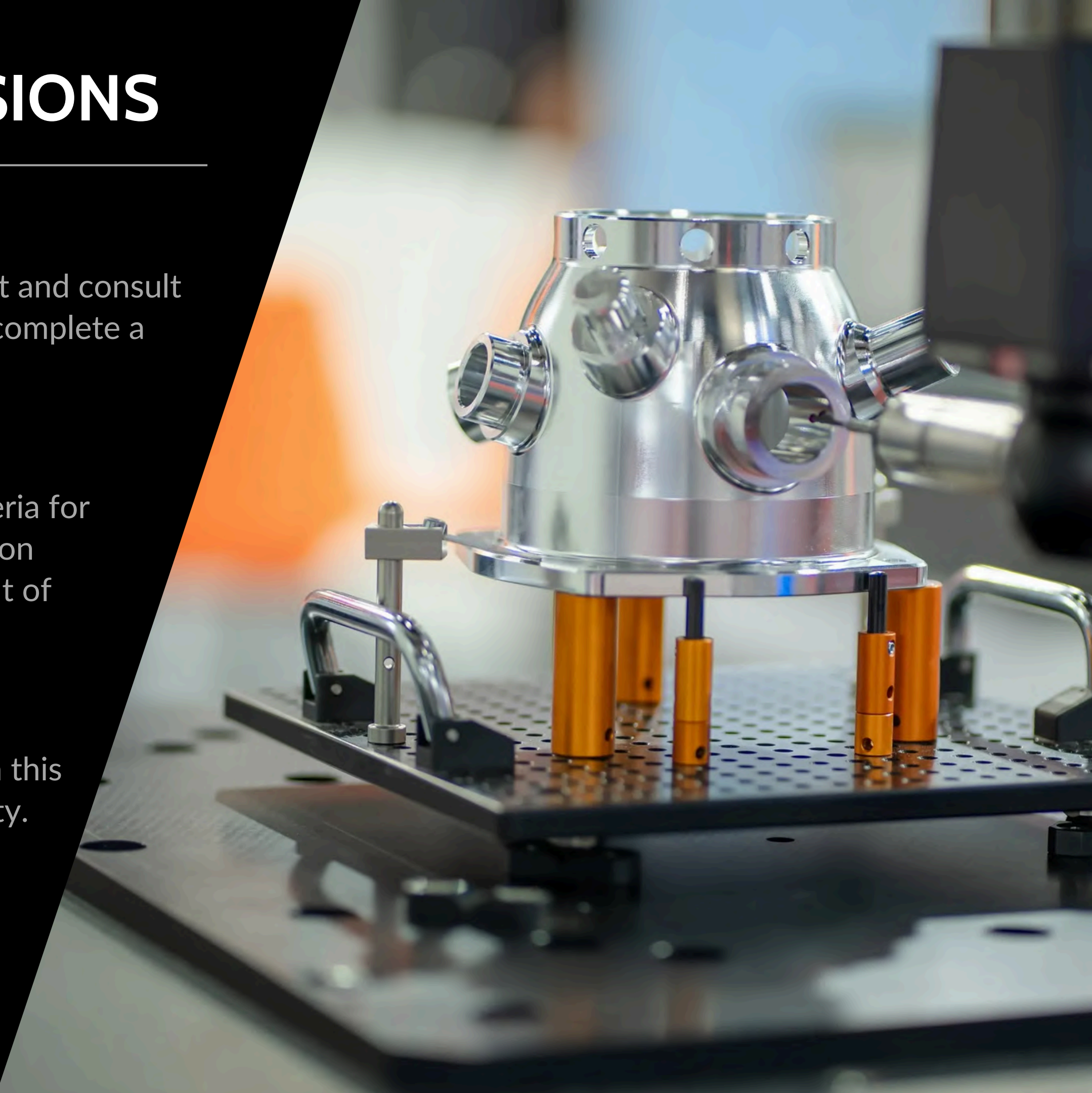
In this section, the overarching acceptance/rejection criteria for all deliverables is set with deemed acceptance and rejection policies. Should none be listed, the criteria will follow that of EM's Terms of Service.

## Warranty

Any other warranties to be negotiated are detailed within this section if they differ from EM's implied "as-is" no-warranty.

## Concluding Notes

Any other final notes pertinent to the execution of the Statement of Work are included herein.





# ARTICLE VII - CLOSURE

## Signature & Approvals

Both parties have collaborated to create the contents of this document herein and by their signatures below verify that all contents are correct, therefore executing by their duly authorized representatives, the start of contract engineering solutions to develop the deliverables listed under the standards of this document.





# OUR NEXT STEPS TOGETHER

With the contingencies that all proper legal documentation (MNDA & ESA) are properly implemented, the next steps in the contract engineering design process are to generate the applicable Statement of Work to start your next project with us! EM will then provide a quotation for the performance of contract engineering services therein, a security deposit of proper value will be placed, and contract engineering service will commence to transform mere concepts to reality.





# CONTACT US

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