



Ref. CC/WRSP-NOT/22/66/22.

Date: 24 - Dec - 2022

#### NOTICE

This is to inform all the Students that a workshop on Leveraging Robotics for Competitive Bidding: Unlocking Efficiency and Innovation for Entrepreneurs will be organized on 10.1.2023 from 9:30 AM to 5:30 PM in the auditorium of Catalyst College.

The workshop is completely free, and no money will be charged for the Training or Certification.

Interested students are instructed to meet the Activity In-Charge / Class Coordinator for more details and their registration.

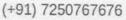
By the order of

Principal Principal CATALYST COLLEGE

ot No. C. Toller Father-13

Plot No.C16(P), Patliputra Industrial Area Patliputra, Patna- 800013













Date: 10.1.2023

### Workshop Title:

Leveraging Robotics for Competitive Bidding: Unlocking Efficiency and Innovation for Entrepreneurs

Number of Students Participated: 46

#### Overview:

This workshop is designed for entrepreneurs, small business owners, and industry professionals who wish to integrate robotics into their competitive bidding processes to enhance efficiency, drive innovation, and gain a competitive edge. As the world of business becomes increasingly automated and data-driven, leveraging cutting-edge technologies like robotics can significantly improve the bidding process, enabling faster, more accurate, and cost-effective proposals.

Participants will learn how robotics can streamline workflows, assist in data analysis, automate routine tasks, and even handle complex bidding scenarios. By the end of this workshop, attendees will have the tools and knowledge to implement robotics in their bidding process, enabling them to win more contracts, reduce errors, and increase profitability.

Model 1: Introduction to Robotics and Its Role in Competitive Bidding

Session 1: Understanding the Impact of Robotics on Business

- Introduction to robotics and robotic process automation (RPA), including a history of automation in business.
- Automation in Competitive Bidding: Exploring how businesses use automation to enhance their competitive bidding processes.
- Key Benefits of Robotics for Entrepreneurs:
  - Efficiency: Faster proposal generation and reduced administrative workload.
  - Cost Savings: Streamlining tasks that would otherwise require human labor.
  - Increased Accuracy: Minimizing errors that can occur during manual data entry or calculations.
  - Innovation: Unlocking new ways of bidding through data-driven insights and AI-powered recommendations.

Session 2: The Bidding Process: From Traditional Methods to Automation



- Traditional Bidding Challenges: Common challenges in the bidding process, such as slow proposal generation, manual data entry errors, and inconsistencies.
- How Robotics Addresses These Challenges: Understanding how robots and AI can streamline tasks like:
  - Data Extraction: Collecting and analyzing relevant data from previous bids, industry trends, and competitor information.
  - Document Generation: Automating the creation of proposals, contracts, and compliance documents.
  - Cost Estimation: Using robotic systems to automatically calculate material costs, labor costs, and overall project pricing.
- Case Studies of Robotics in Competitive Bidding: Real-world examples of businesses that have successfully integrated robotics into their bidding processes.

#### Session 3: Types of Robotics Technologies for Competitive Bidding

- Robotic Process Automation (RPA): Overview of RPA and how it is used to automate repetitive tasks in the bidding process, such as filling out forms, data entry, and document management.
- AI and Machine Learning: How AI-powered algorithms help analyze large datasets to create dynamic and optimized bids.
- Bots for Data Collection: Using web scraping and data mining bots to gather market intelligence and competitor bids.
- Collaborative Robots (Cobots): How cobots can work alongside human employees to handle tasks that require physical manipulation or assistance in a production environment.

Model 2: Robotics in Action: Implementing Automation in Your Bidding Process

#### Session 1: Automating Data Collection and Analysis

- Using RPA for Data Scraping: How to use bots to extract valuable data from suppliers, competitors, or historical records to inform your bids.
- AI for Bid Optimization: How AI can help analyze historical data to create winning bids by optimizing cost estimates and adjusting for market trends.
- Data-Driven Pricing Models: Leveraging data to create dynamic pricing models that can adjust based on competition, demand, and market conditions.
- Interactive Lab: Participants will set up a simple RPA tool to automate data collection for a sample bidding scenario.

Session 2: Streamlining Document Management and Proposal Creation



- Automating Proposal Generation: How to set up systems that automatically generate proposals based on data inputs (e.g., project scope, pricing, resources).
- Contract Automation: Using robotics to automatically fill in contract templates with accurate data from previous bids and proposals.
- Compliance and Document Review: Automating the review of documents to ensure they meet regulatory or client-specific requirements, reducing errors and manual checks.
- Hands-On Exercise: Participants will use an RPA platform to automate the creation of a simple bid document and review its accuracy.

#### Session 3: Integrating Robotics with Existing Bidding Tools

- Choosing the Right Robotics Tools: An overview of RPA platforms like UiPath, Automation Anywhere, and Blue Prism and how they integrate with common bidding and project management software.
- API Integration: How robotics can be integrated with existing tools (e.g., CRMs, Excel spreadsheets, cloud storage) using APIs and connectors.
- Building Custom Automation Workflows: Participants will work in small groups to design a custom automation workflow for a bidding process, including steps for data collection, document generation, and pricing.

#### Model 3: Advanced Robotics Applications and Future Trends in Competitive Bidding

#### Session 1: AI and Machine Learning for Advanced Bidding Strategies

- Predictive Analytics: How AI can predict the likelihood of winning a bid based on past performance, competition, and market conditions.
- AI for Risk Management: Using machine learning algorithms to assess the risks associated with each bid and make recommendations for mitigation.
- Dynamic Pricing Models: How robotics and AI can be used to dynamically adjust pricing based on real-time market data, competitor pricing, and customer preferences.
- Interactive Lab: Participants will use a machine learning model to predict the outcome
  of a sample bid based on historical data.

#### Session 2: Innovative Robotics for Competitive Advantage

- Blockchain for Bidding Transparency: Using blockchain to create transparent, tamperproof records of bids, agreements, and negotiations.
- Collaborative Robots (Cobots) in Manufacturing and Logistics: How cobots can be used in bidding for manufacturing or construction projects to improve efficiency and reduce costs.

Principal
CATALYST COLLEGE
Plot No. C-18/9 Patipute Industrial Area
Patipute Patro-13

 Robotics in Supply Chain Optimization: Using robotics to enhance supply chain management, including inventory tracking, order fulfillment, and cost reduction in production, which directly impacts bid competitiveness.

#### Session 3: Building a Robotics-Enabled Bidding Ecosystem

- End-to-End Bidding Automation: How to create an integrated, end-to-end robotics solution that manages the entire bidding lifecycle—from data collection to proposal submission.
- Scalability: How to scale robotics solutions as your business grows and the number of bids increases.
- Feedback Loops for Continuous Improvement: How to use AI and robotics to create a
  feedback loop that continually improves bidding efficiency, accuracy, and
  competitiveness.
- Case Studies and Future Trends: Examining forward-looking trends in robotics for business, including autonomous bidding systems and robotic negotiation platforms.

#### Model 4: Building Your Robotics-Enhanced Bidding Strategy

#### Session 1: Creating an Action Plan for Implementing Robotics in Your Business

- Assessing Your Current Bidding Process: How to evaluate your existing bidding process and identify areas where robotics and automation can add value.
- Choosing the Right Robotics Tools for Your Needs: How to select the appropriate robotics and automation tools based on your company size, industry, and business objectives.
- Step-by-Step Implementation: A practical guide to implementing robotics in your bidding process, from initial research and tool selection to full deployment.

#### Session 2: Cost-Benefit Analysis and ROI of Robotics for Bidding

- Cost Considerations: Evaluating the upfront costs of robotics tools and the long-term savings in labor, time, and error reduction.
- Measuring Success: Key performance indicators (KPIs) to track the impact of robotics on bidding efficiency, win rates, and profitability.
- ROI Case Studies: Real-world examples of businesses that have successfully
  implemented robotics and the measurable results they achieved.

#### Session 3: Q&A, Review, and Next Steps

- Recap of Key Learnings: A comprehensive review of the workshop content, including tools, techniques, and strategies for implementing robotics in competitive bidding.
- Q&A and Group Discussion: Open forum for participants to ask questions, share insights, and discuss challenges.

Principal
CATALYST COLLEGE
Plot No. C-16(P) Perliputra Industrial Area
Patliputra, Patno-13

 Next Steps: Actionable steps for participants to begin incorporating robotics into their own bidding processes, including additional resources for learning and tool recommendations.

#### Key Takeaways:

Understanding of robotics

Leveraging Robotics for Competitive Bidding: Unlocking Efficiency and Innovation for Entrepreneurs

Date: 10.1.2023



Leveraging Robotics for Competitive Bidding: Unlocking Efficiency and Innovation for Entrepreneurs Date: 10.1.2023







ro Entrepreneurs

Date: 10.1.2023





## Registration

For Workshops/Seminars/Conferences during Academic Year 2022-2023

# Leveraging Robotics for Competitive Bidding: Unlocking Efficiency and Innovation for Entrepreneurs

## (10 January 2023)

S. No	ID	Name of the studen+	
1	445-8721	Jay Shankar Prasad	Student's Signature
2	445-8773	Sonu Kumar	Jay Shankar Pasao
3	445-8836	Anil Tudu	Some flewer
4	445-8718	Alok Kumar	Anil Tudy
5	445-8662	Mukul Kumar	Hoje huma
6	445-8673	Rajat Ranjan	Huliub Kriman
7	445-8667	Amit Kumar	Jegal- Karjan
8	445-8771	Rahul Kanaujiya	the laura
9	445-8664	Suman Saurabh	Rahul Kunanjiya
10	445-8729	Ful Kumar	Sunay Sowiakh
11	445-8783	Md. Irshad	ty Kymar
12	445-8716	Saurav Kumar	Torsharel.
13	445-8703	Ashish Kumar Singh	Seemon from
14	445-8699	Anjali Kumari	Ashish for Lingh
15	445-8976	Anjali Kumari	Anjali kumani
16	445-8808	Bittu Kumar	4 male
17	445-8701	Abhijeet Kumar	2 phonas
18	445-8675	Manish Kumar	Bitty Kumar
19	445-8806	Praveen Kumar	Marish o
20	445-8706	Raghav Kumar	1 Transe
1	445-8785	Tabrez Rabbani	Reighow thuman
2	445-8693	Raju Kumar	Pabrica Rabbon
3	445-8682	Deepak Raj	Kaju Kymar
4	445-8739	Prince Kumar Tiwari	Deepak Koj
5	445-8748	Prashant Kumar	Prince Givent
6	445-8709	Vikash Kumar	Breishart hun
7	445-8974	Avinash Kumar Mandal	Vi Kash hun
3	445-8981	Jahana Khatun	Gerash Kumar Handay
)	445-8994	Aman Choudhary	Jahana Khatui
)	445-8997	Yuvraj	man.
	445-8952	Sumit Kumar	Juvrey

32	445-8967	Sanni Kumar	- 81
33	445-8916	Dilkhush Kumar	Wilkhush.
34	445-8972	Jaiwardhan	(1) ilkhush
35	445-9049	Tripurari Kumar	Jaiwardha Tripuari Ku
36	445-8912	Hrithik Raj	pripurari Ku
37	445-9067	Dafa K	Houthick Ray
38	445-8919	Sourya Singh	Prince
39	445-8926	Vikram Kumar	Souriste.
40	445-8909	Roushan Kumar	o vikran
41	445-8999	Saumya Kumari	Roughon Kymor
42	445-8970	Hemant Kumar	Saunga Thi
43	445-8978	Shreya Jaiswal	Heman thu
44	445-8934	Nitesh Kumar	Shreya Jaiswal
45	445-8954	Anurag Kumar	Mitesh Kumar
46	445-8921	Sukhnandan Kumar	Anurag human

(Sign.)

Course Coordinator