

Engineering Notebook Rubric

Team Number: _____ Judge Name: _____



Organization & Professionalism of the Entire Notebook (15 points)					
Criteria	Exemplary (3 points)	Proficient (2 points)	Developing (1 point)	Beginning (0 points)	Points
Cover and Team Information	Complete and professionally presented	Complete team information	Basic information only	Missing or incomplete	
Table of Contents	Thorough and consistently updated	Mostly complete	Partially updated	Missing	
Pagination and Chronology	Notebook easy to follow, organized chronologically or by section	Mostly chronological or organized by section	Some pages missing/out of order; sections unclear	Inconsistent; hard to follow	
Dates and Signatures	Every entry dated and attributed	Usually present	Inconsistent	Rarely used	
Professional Presentation	Highly professional and polished	Neat and organized	Adequate	Difficult to read	
Engineering Design Process of Robot and/or Coding Projects (25 points)					
Criteria	Exemplary (4-5 points)	Proficient (3 points)	Developing (2 points)	Beginning (0-1 point)	Points
Problem Definition	Thorough analysis and constraints	Clear requirements	Basic goals identified	Minimal	
Brainstorming	Extensive ideation with comparisons	Multiple concepts documented	Some ideas recorded	Little evidence	
Design and Coding Decisions	Decisions supported with evidence	Most decisions justified	Some rationale	Decisions unexplained	
Prototyping	Systematic prototyping and evaluation	Multiple iterations	Some prototypes	Few prototypes shown	
Iterative Process	Highly professional and polished	Neat and organized	Some revisions	Little evidence	
Design Content and Technical Depth of Robot and/or Coding Projects (20 points)					
Criteria	Exemplary (4 points)	Proficient (3 points)	Developing (2 points)	Beginning (0-1 point)	Points
Sketches and Diagrams	High-quality annotated drawings and/or diagrams	Detailed sketches	Basic sketches	Few or absent	
Technical Explanations	Deep engineering and coding reasoning	Clear technical descriptions	General descriptions	Minimal	
Calculations	Extensive quantitative analysis	Appropriate calculations	Some calculations	Rarely included	
CAD/Build/Code Documentation	Comprehensive records of builds and/or coding projects	Good documentation	Some screenshots/photos	Little evidence	
Use of Evidence	Strong evidence throughout	Data supports decisions	Limited evidence	Unsupported claims	
Testing, Analysis, and Iteration for Robot Design and Coding Projects (15 points)					

All judging materials are strictly confidential. Do not share beyond Judges and Judge Advisor. Destroy at the conclusion of the event.

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Criteria	Exemplary (4 points)	Proficient (3 points)	Developing (2 points)	Beginning (0-1 point)	Points
Test Procedures	Well-designed experiments	Defined procedures	Informal	Missing	
Data Collection	Extensive quantitative data	Adequate records	Some data	Little data	
Analysis & Improvements	Deep interpretation of results and evidence of data-driven iteration	Meaningful analysis and iterative improvements	Basic observations with some improvements	Minimal analysis with few changes	
Team Management and Project Documentation (9 points)					
Criteria	Exemplary (3 points)	Proficient (2 points)	Developing (1 points)	Beginning (0 points)	Points
Team Roles	Roles and responsibilities evolved	Clearly defined	Briefly described	Not documented	
Meeting Notes	Thorough and actionable	Regular	Occasional	Rare	
Schedules and Planning	Comprehensive project management	Adequate planning	Some planning	Minimal	
Reflection and Learning (10 points)					
Criteria	Exemplary (4-5 points)	Proficient (3 points)	Developing (2 points)	Beginning (0-1 point)	Points
Competition Reflections & Failure Analysis	Deep analysis and lessons learned including root-cause analysis	Thoughtful reflections and documented discussions	Brief comments	None	
Future Improvements	Strategic planning and actionable goals	Clear next steps	Some ideas	Limited	
Completeness and Season Narrative (6 points)					
Criteria	Exemplary (3 points)	Proficient (2 points)	Developing (1 points)	Beginning (0 points)	Points
Continuity	Complete season narrative	Mostly complete	Some gaps	Fragmented	
Evidence of Growth	Exceptional story of improvement	Clear progression	Some evidence	Minimal	
				TOTAL	