

# Engineering Notebook Rubric

Team Number: \_\_\_\_\_ Judge Name: \_\_\_\_\_



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

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<b>Use of Evidence</b>	Strong evidence throughout	Data supports decisions	Limited evidence	Unsupported claims	
<b>Testing, Analysis and Iteration (15 points)</b>					
Criteria	Exemplary (4 points)	Proficient (3 points)	Developing (2 points)	Beginning (0-1 point)	Points
<b>Test Procedures</b>	Well-designed experiments	Defined procedures	Informal	Missing	
<b>Data Collection</b>	Extensive quantitative data	Adequate records	Some data	Little data	
<b>Analysis &amp; Improvements</b>	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	
<b>Team Management and Project Documentation (9 points)</b>					
Criteria	Exemplary (3 points)	Proficient (2 points)	Developing (1 points)	Beginning (0 points)	Points
<b>Team Roles</b>	Roles and responsibilities evolved	Clearly defined	Briefly described	Not documented	
<b>Meeting Notes</b>	Thorough and actionable	Regular	Occasional	Rare	
<b>Schedules and Planning</b>	Comprehensive project management	Adequate planning	Some planning	Minimal	
<b>Reflection and Learning (10 points)</b>					
Criteria	Exemplary (4-5 points)	Proficient (3 points)	Developing (2 points)	Beginning (0-1 point)	Points
<b>Competition Reflections &amp; Failure Analysis</b>	Deep analysis and lessons learned including root-cause analysis	Thoughtful reflections and documented discussions	Brief comments	None	
<b>Future Improvements</b>	Strategic planning and actionable goals	Clear next steps	Some ideas	Limited	
<b>Completeness and Season Narrative (6 points)</b>					
Criteria	Exemplary (3 points)	Proficient (2 points)	Developing (1 points)	Beginning (0 points)	Points
<b>Continuity</b>	Complete season narrative	Mostly complete	Some gaps	Fragmented	
<b>Evidence of Growth</b>	Exceptional story of improvement	Clear progression	Some evidence	Minimal	
				<b>TOTAL</b>	

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