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| Book Name: | [Engineering Research: Perspectives on Recent Advances](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4108** |
| Title of the Manuscript: | **Planning the Manufacturing Process Using Feature Recognition** |
| Type of the Article | **Book chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment | Author’s Feedback*(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimumof 3-4 sentences may be required for this part.** | This manuscript provides valuable insights into the automation of CNC programming using Feature-Based Machining (FBM). The integration of CAD/CAM applications with automated feature recognition significantly improves manufacturing efficiency and accuracy, which is a critical topic for both academia and industry. By presenting a detailed methodology and case study using Siemens NX, the manuscript bridges theoretical concepts with practical implementation. It contributes to advancing the state-of-the-art in automated manufacturing processes, particularly in the context of reducing production time and enhancing precision. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title is suitable as it captures the essence of the manuscript. However, to make it more specific and appealing, an alternative title could be: **"Automating the Manufacturing Process: Feature Recognition and CNC Programming with Siemens NX"** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | The abstract is comprehensive and effectively summarizes the manuscript's objectives, methodology, and outcomes. However, it could benefit from emphasizing the key results, such as the time saved using FBM compared to traditional methods. Including quantitative outcomes (e.g., programming time reduction of 29 minutes) would strengthen the abstract. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically accurate and well-supported by references and data. The methodology is clearly outlined, and the experiments provide a robust validation of the proposed approach. The discussion of results and comparisons with traditional methods is thorough and insightful. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references are sufficient and include recent studies on machining feature recognition and CAD/CAM integration. However, the manuscript could benefit from additional citations to expand on the latest developments in deep learning-based machining feature recognition, particularly from recent AI-focused research (e.g., BrepMFR and AAGNet studies). |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language quality is suitable for scholarly communication, but minor grammatical corrections and stylistic improvements would enhance readability. Phrases such as "timed time to create the CNC program" can be rephrased for clarity. |  |
| Optional/Generalcomments |  Figures are well-illustrated and support the text effectively. Consider including more detailed captions to make them self-explanatory.   Highlighting the broader implications of FBM adoption, such as its potential impact on workforce training and industry practices, would provide additional depth.   The conclusions could expand on future research directions, such as exploring AI-based feature recognition systems.  The manuscript is well-prepared and makes a significant contribution to the field, requiring only minor revisions. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*** |
| **Are there ethical issues in this manuscript?** | ***(If yes, Kindly please write down the ethical issues here in details)*** |  |

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| **Reviewer Details:** | |
| **Name:** | **Priyanka Das** |
| **Department, University & Country** | **USA** |