Mathematical Sciences

Individual Report

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Submitted By :
Student Name

PIC**Math**

Contents

1   Section 1

The paper will look professional and is typed in LaTeX. Make sure the cover page includes the Project Title, Team Names, Date, and PIC Math Logo (1 point).

Remaining pages should include: (7 points)

1.Problem summary: state the industrial problem, its context, and its significance; include a list of most important questions to be addressed. State the industrial sponsor of the project.

2.Statement of your results, with assumptions and questions(one page).

3.Details about your (one of several) approaches to problem; elaborate which questions are important and why; your results and/or anticipations (this is where your mathematics details fit); relevant information from your sources (citing for example [2]) and what the team is incorporating from each source; details of your solution, if any; relevant tables and graphs (tables and graphs pages do not count towards the page limit). State your work and include references - you might never make use of reference [1] but it is a great paper.

4.Conclusions with questions, implications and ideas for future work

5.Extended Bibliography List (not included in page limit) in the following format:

[1] Author name(s). Paper title. Journal name, volume XY, pages ab-cd, year.

6.Acknowledgments page, stating:

"PIC Math is a program of the Mathematical Association of America (MAA) and the Society for Industrial and AppliedMathematics (SIAM). Support is provided by the National Science Foundation (NSF grant DMS-1345499)."

7.Advisor names, etc.

Flow /Visual Composition/Grammar/Spelling (2 points)

2   Acknowledgments

Bibliography

[1] A. Aldroubi, C. Cabrelli, U. Molter, and Sui Tang, Dynamical sampling, *Applied and Computational Harmonic Analysis*, doi:10.1016/j.acha.2015.08.014, 2016

[2] A. Aldroubi, C. Cabrelli, A. F. Cakmak, U. Molter, and A. Petrosyan, Iterative actions of normal operators, Submitted. Available at http://arxiv.org/abs/1602.04527.

[3] K. Groechenig, *Foundations of time-frequency analysis*, Birkhäuser Boston, 2001.