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Admissions Committee, M.Sc. [Programme]
[University], [City], Germany

Pune, [date]

Motivation letter: M.Sc. [Programme], winter semester [year]

Dear members of the admissions committee,

In my final-year project I built a vibration monitor for a pump in our college workshop: an accelerometer, a microcontroller and a simple threshold alarm. It worked, but it raised the question I now want to study properly: how do you tell a failing bearing from normal wear before it stops a machine? I am applying to the M.Sc. [Programme] at [University] because its focus on condition monitoring and embedded systems answers exactly that question.

I completed my B.Tech in Mechanical Engineering at [College], Pune, in [year] with a CGPA of 8.4/10. The courses that prepared me most were Control Systems, Machine Dynamics and Microprocessors. For the project above, I wrote the firmware in C, logged two weeks of data and compared it with the maintenance log; the alarm caught one bearing fault four days before the scheduled check. Since graduating, I have worked for eighteen months as a graduate engineer at [Company], a pump manufacturer, where I test prototypes and write the test reports our design team uses.

Three parts of the programme fit this background. The module [Module 1] would give me the signal-processing methods my project lacked; [Module 2] would let me work on real sensor hardware rather than a breadboard; and the [Lab or Institute] research group on predictive maintenance is where I would like to write my thesis. I also value that the programme includes a project with an industry partner, because my work so far has been close to the shop floor and I want to keep it there.

After the degree I want to work as a condition-monitoring engineer in German or Indian manufacturing, where predictive maintenance is still introduced machine by machine. I have started learning German (A2, Goethe-Institut, [year]) and will continue alongside my studies.

Thank you for considering my application. I would be glad to provide any further information.

Yours sincerely,
Ananya Rao

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