

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Saurabh Singh
- **User Type:** ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- **Institution Name:** Indian Institute of Science, Bengaluru
- **Institutional Contact No:** +91 80 2293 2332
- **Research Topic:** Study of In-cylinder processes of a Novel Opposed-Piston 2-stroke Hydrogen Fuelled IC Engine

Software Request Details

- **Software Name:** LabVIEW
- **Justification for Software Request:** The research area includes work on Hydrogen fuelled IC engine and some fundamental experiments on Constant Volume Combustion Chamber (CVCC) where fuel supply is through electronic fuel Injection system. This EFI system needs to be highly accurate and trigger pulses are in the order of a few microseconds. The LabVIEW software (FPGA module) is required to program the NI digital I/O device to get trigger signals for EFI and Ignition systems.

Guide/Supervisor Approval

I, Prof. R. V. Ravikrishna (Guide/Supervisor Name),

- Confirm that the above-mentioned researcher is affiliated with our institution
- Have reviewed the software request and its relevance to the researcher's academic work
- Approve the software request for research purposes

Approval Confirmation

- I approve the software request
- The software aligns with the researcher's research objectives
- The request meets the institutional research guidelines

Guide/Supervisor Signature: _____



Date: July 10, 2025

Official Stamp/Seal:

Dr. R. V. RAVIKRISHNA
Professor
Department of Mechanical Engineering
Indian Institute of Science
Bangalore - 560 012, INDIA

Important Notes

1. This form must be signed and scanned
2. The scanned copy must be uploaded with the software request
3. Electronic signatures are acceptable if from an official institutional email