General guidelines to Ph.D. candidates interested in working with our research group

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We are always interested in having highly motivated and passionate students join our group. Ideas are aplenty and there are a lot of problems that need to be solved! If you see yourself being a part of a dynamic group operating at the cutting edge of applied research in microsensors and microsystems, continue reading below! We have openings for Ph.D. and M.Tech. students for project ideas in broad areas of biosensors, embedded signal processing for structural health monitoring applications and condition monitoring.

What can you expect from working with our group:
Working with our group will provide you opportunities to gain mastery over multiple facets of electrical engineering, such as embedded and digital systems design, signal processing, circuit design and instrumentation, simulation and testing, and numerous opportunities to solve pressing and challenging problems of multidisciplinary nature. Students seeking to work with the group must have good analytical skills and be able to find creative solutions to a variety of problems. Course background and a good understanding of biosensors, optical and electronic properties of materials, semiconductor physics, and analog and digital circuits and embedded systems are essential for succeeding in our group. There are openings for interested students with suitable backgrounds in multiple roles spanning sensor design and assembly, design and simulation, programming and instrumentation and building application specific systems.

We seek to maintain an informal and open environment conducive for learning, conducting research and personality development. However, we are also vigilant of our high professionalism standards that we have set for ourselves, and practice a sound work ethic. We do not settle for work outputs that do not justify our potential, and keep pushing ourselves to excel and continually improve and grow. We believe that our strength lies in diversity, and encourage interested students to interact with us to learn more about what we do and discuss how they could be involved. We believe in free and open communication, and emphasise heavily on good communication skills.

What we expect from/look for in prospective group members:
Curiosity, clarity on why you want to do a Ph.D., never-say-die attitude, passion for building and making things, fast learner, good communication skills, good grasp of fundamentals, perseverance and dedication, strong work ethic, leadership skills (self-learner, ability to take decisions, receive feedback, take initiative, build consensus, work in teams etc.)

If you are interested in working with us, you should go through some relevant papers from our group to get an idea of the kind of work we do, and come prepared to the interview to talk about what about our projects/publications etc. you find interesting and compatible with your expertise and goals. You are strongly encouraged to contact the PI or students to know more about our work. Project abstracts for TAP openings are provided on the EE department Ph.D. admissions page for further information.

Link to our publications: http://www.ee.iitb.ac.in/~stallur/publications/
Our group members have also won many awards for their work. Details here: http://www.ee.iitb.ac.in/~stallur/awards/