Past Topics for the Ph.D. Preliminary Qualifying Examination

2000: Pedestrian Protection

Recent Government studies have indicated an increase in vehicle-pedestrian accidents. You are responsible for formulating research to evaluate and respond to this situation. Outline your proposal for identifying and correcting the key problem areas.

Your areas of focus should:

1. Identify the factors that contribute to vehicle-pedestrian accidents.
2. Discuss how biomedical engineering can be applied to the resolution of this problem.
3. Outline how your approach should be modified according to the different entities that contribute to vehicle-pedestrian accidents. (ie vehicles, the elderly, roads, etc.)