

Intern Requirement

Preferred Discipline	<ul style="list-style-type: none">• Computer Engineering• Computer Science• Electrical Engineering
Prerequisites/ Skills Required:	<ul style="list-style-type: none">• Proficient in C++ and scripting languages such as bash and perl• Self motivated, resourceful and willing to learn on the job• Interest in speech/signal processing will be an advantage
No. of students required	1

Project Details

Title	Speech Coding Effects on Speech Recognition Accuracy
Overview/Background	In mobile communications, for the purpose of efficient transmission, voice signals undergo narrowband speech coding to retain its perceptual quality with using as few bits as possible. There is always a trade-off between the bit rate of the codec and the quality of its constructed speech.
Aims/Objectives/Deliverables	The aim of this project is to investigate the performance degradation of speech recognition engines, experimenting with different speech codecs.
Scope	The intern will be introduced to speech recognition technologies, speech codecs and evaluation metrics for audio search engines. He/She will be required to investigate the performance of the supplied speech recognition engine on different speech codecs, develop a simple speech recognition engine (using a supplied API) for performance benchmarking and evaluate the supplied speech recognition engine.
Project Duration	<ul style="list-style-type: none">• 2-3 months