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Imperial College London\\

Department of Electrical and Electronic Engineering\\~\\

Final Year Project - Interim Report 2015

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\huge PAWS\\

\LARGE Programmable And Wearable Sound \\

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\section\*{Abstract} \label{Abstract}

\textbf{The project specification should state clearly what the project is intended to deliver, including all hardware, software, simulation, and analytical work, and provide some motivation.}

\textit{'The development and evaluation of a novel and unusual musical instrument to be constructed using a 3D printer.'}

This final year project has a short brief (shown in italics above) and is open-ended, relying more on a creative musically-oriented approach rather than the usual best-fit engineering solution.

The definition of a 'musical instrument' has evolved drastically over the years, ranging from traditional acoustic instruments (\textit{piano, violin}) to electrical (\textit{guitars, keyboards}), electronic (\textit{synthesisers, Theremin}), and even virtual instruments that only exist as software models in audio production software.

The aim of this project is to research the current market and design a new 'instrument' that integrates its traditional definition of being able create sounds with modern production methods and technological trends such as sampling, synthesis, and motion capture, in an effort to increase functionality while maintaining musical expression.

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Project & A Novel \& Unusual Musical Instrument \\

Name & Kartiksinh K. Gohil \\

CID & 00692607 \\

Supervisors & Prof Robert Spence, Dr Mark Witkowski \\

Second Marker & Dr Christos Papavassiliou

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