RAGHAV NAIDU | AMIMechE

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EDUCATION AND QUALIFICATIONS

MSc Mechatronics, University of Bath, UK - Merit **2019 – 2020**

- ***Modules (Achieved - 70%)*** – Engineering Systems Simulation; Control Engineering; Computational Intelligence; Robotics Engineering; Control of Modern Electrical Power Systems; Electronic Communication Systems; Engineering Project Management.

BEng (Hons) Mechanical Engineering, University of Bradford, UK - 1st Class Honours **2016 – 2019**

- ***Relevant Modules*** – Six Sigma for Business Excellence; Advanced Fluid Mechanics; Material Failure Analysis; Advanced Engineering Design; Sensors; Further Mathematics and Statistics; Control Engineering; Engineering Statics and Dynamics.

International School of Seychelles Sixth Form, Mahé, Seychelles **2015 – 2016**

- GCE A Levels: Physics, Applied ICT and Edexcel Mathematics.

The Winchester School, Jebel Ali, Dubai, UAE **2013 – 2015**

- GCE AS Levels: Applied ICT, Edexcel Mathematics, Physics, and Chemistry.
- IGCSEs: 7 subjects including First Lang. English (A*) and Maths (A*).

TECHNICAL SKILLS

SolidWorks | MATLAB | ANSYS | Fusion 360 | Python | GD&T | Fabrication | 3D Printing

EXPERIENCE AND PROJECTS

Dissertation: Wave Energy Converter: Power increase through control **2019 – 2020**

- Designed, tuned and implemented a PD controller as a complex-conjugate approximation in Simulink to maximise power generation in wave energy converters, observing power gains upto 21%.

Individual Project: PID and Fuzzy controller design for cruise control systems **2018 – 2019**

- Designed and tuned a PID and Fuzzy controller for cruise control system.
- MATLAB and Simulink used extensively for system modelling and simulation.

Year 3: Prosthetic Arm for Indoor Bouldering **2018 – 2019**

- Documented the technical specifications of the arm, with function, materials, and cost.
- Prototyped a 3D printed physical model based on a virtual mock-up, designed using SolidWorks..
- Delegated project phases from a WBS and ensured completion with weekly meetings.
- Materials selection based on material analysis performed using FEA.

Student Work Experience, Public Utilities Corporation, Mahé, Seychelles **Aug 2017**

- Collaborated with engineers in the quinquennial major inspection and maintenance of a Wärtsilä power generation combustion engine, used to produce the islands' electricity.
- Assembled and re-calibrated components of the generator before replacing them.

ACHIEVEMENTS: BEng Final Year Project Prize | Best academic performance in Year 2.

INTERESTS

Cooking | Baking | Fitness | Tennis | Badminton | Swimming | Travelling | Hiking | Movies | Novels