**ABSTRACT**:

A novel approach to tackle various inefficiencies of the modern day Vehicle-to-Vehicle communication technology, specifically the modern-day implementation using the Automotive-Grade Linux.

The project begins with sampling the actual hardware and software deployed by the leading manufacturers and industry, highlighting use-cases like the Toyota Prius, Tesla Model S, and Reva employing an ECU approach, and concludes with delivering optimizational remedies.

**Keywords**:

Automotive Communication Networks; Decentralized Communications; In-Vehicle Networking; Hybrid Platooning;S.M.A.R.T. Automobile Clustering;

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|  | **LIST OF ABBREVIATIONS** |  |

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| **S. No.** | **Abbreviated Form** | **Long Description.** |
|  | CAN | Controller Area Network |
|  | AGL | Automotive Grade Linux |
|  | V | Vehicle |
|  | *N* | Node |
|  | *V2V* | Vehicle to Vehicle |
|  | ECU | Electronic-Engine Control Unit |
|  | O.S.S. | Open Source Software |
|  | R.O.L.L. | Routing over Low PAN &Lossy Networks |
|  | VHF | Very High Frequency |
|  | VM | Virtual Machine |
|  | HVAC | High Voltage A/C |
|  | GIS/GPS | Global/Geospatial Information/Positioning System |