SE19 – Next Gen Brush Motor Current Control

- **Description**
  - Regulator design for improved frequency response consistency, simplified tuning process
  - Optimal anti-windup design for improved stability during voltage saturation
  - Feedforward compensation and state-feedback for improved disturbance rejection

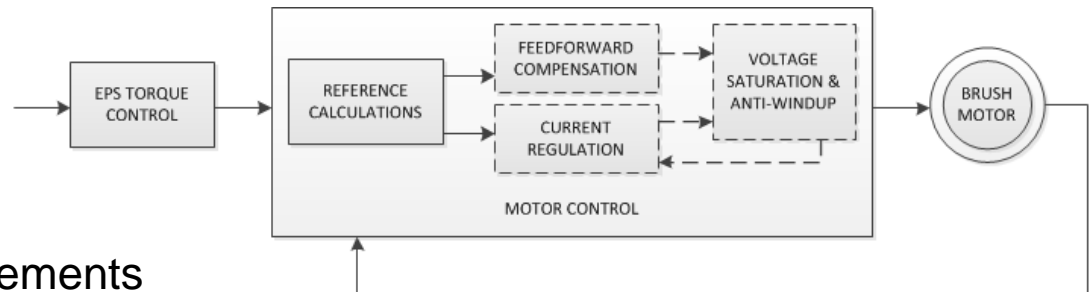- **Motivation (Type:n)**
  - <Provide rationale>
- **Deliverables**
  - Function design requirements
    - FDD (SF-99C)
- **Timing**
  - Next big brush program
- **Team Members/Customers**
  - Prerit Pramod, Chris Rogner, Rakesh Mitra, Krishna Namburi, Varsha Govindu, Srujan Maram

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- **Status**
  - Prototype software requirements complete
  - PSR software requested (FE resource)
- **Challenges**
  - It is difficult to keep the Brush EPS projects at high enough priority to get resources.
- **Next Steps**
  - Completion and delivery of PSR code (FE-7) – Srujan Maram
  - Functional testing of PSR code
  - Functional verification of performance improvements
  - Release of production version of FDD (SF-99C)
  - Inclusion in Brush program build plans