

```
/******
```

Header file for template Flat Sate Machine

based on the Gen2 Events and Services Framework

```
*****/
```

```
#ifndef MotorPIC_H
```

```
#define MotorPIC_H
```

```
// Event Definitions
```

```
#include "ES_Configure.h" /* gets us event definitions */
```

```
#include "ES_Types.h" /* gets bool type for returns */
```

```
// Tape event parameters
```

```
#define NO_SENSORS 0
```

```
#define OFF_LEFT 1
```

```
#define OFF_RIGHT 2
```

```
#define CENTERED 3
```

```
#define ARRIVED 4
```

```
// typedefs for the states
```

```
// State definitions for use with the query function
```

```
typedef enum
```

```
{
```

```
    Waiting4Command, Driving2Tape, DrivingOnTape, InactiveState  
}MotorPICState_t;
```

```
// Public Function Prototypes
```

```
bool InitMotorPIC_SM(uint8_t Priority);
```

```
bool PostMotorPIC_SM(ES_Event_t ThisEvent);
```

```
ES_Event_t RunMotorPIC_SM(ES_Event_t ThisEvent);
```

```
MotorPICState_t QueryMotorPIC_SM(void);
```

```
#endif /* FSMTemplate_H */
```