Installation & Basic Usage

Add dependency in your gradle.

```
dependencies {
   compile files('libs/eBeamSmartPenSDK-v1.0-20180515-release.aar')
}
```

Register UartService in your manifest.

```
<service
    android:name="com.luidia.ebeam.pen.sdk.UartService"
    android:enabled="true" />
```

Import the eBeamSDK and create Smartpen Controller that is singleton object in your application context.

```
import com.luidia.ebeam.pen.sdk.EBeamSPController;

public class ExampleApplication extends android.app.Application {
    @Override
    public void onCreate() {
        super.onCreate();

        EBeamSPController.create(this);
    }
}
```

```
public class MyActivity extends Activity {
    private EBeamSPController penController;

@Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        penController = EBeamSPController.getInstance();
    }
}
```

Connecting eBeam Smartpen via BLE

```
public void connect(BluetoothDevice btDevice) {
   final String address = btDevice.getAddress();
   final String name = btDevice.getName();
```

```
penController.connect(name, address);
}
```

Disconnecting

```
@Override
public void onClick(View v) {
    switch (v.getId()) {
        case R.id.btn_connect:
            if (penController.isPenMode()) {
                penController.disconnect();
            }
            break;
    }
}
```

Registration / Unregistration Listeners

Handling PenMessage

```
@Override
public void onPenMessage(int i, int i1, int i2, Object o) {
    final int what = i;

    switch (what) {
        case PenMessage. PNF_MSG_DISCONNECTED:
        case PenMessage. PNF_MSG_CONNECTED:
        case PenMessage. PNF_MSG_DI_FAIL:
            updateButtons();
```

```
updateDeviceInfo();
break;
}
}
```

PenEvent Handling

```
@Override
public void onPenEvent(int i, int i1, int i2, Object o) {
    final int what = i;
    final int x = i1:
    final int y = i2:

    switch (what) {
        case PenEvent. PEN_DOWN:
        case PenEvent. PEN_HOVER:
        case PenEvent. PEN_MOVE:
        case PenEvent. PEN_LUP:
        break;
    }
}
```

Calibration

See CalibrationActivity.java in example project.

Changing Pen Name

See ChangeNameActivity.java in example project.