ARM Processor Projects are based on a reduced instruction set computing (RISC) architecture.ARM Processor Require fewer transistor than CISC. **ARM** is a family of instruction set architectures for computer processors. ARM architecture was originally developed by Acorn Computers in the 1980s.

We assist research Scholars in implementing *ARM Processor Projects* with best Customer Support. For more details contact us: +91 9790238391.

ARM Cortex Family:

- ARM Cortex-A family-application processors for full Operating system.
- ARM Cortex-R family-embedded processors for real-time signal processing, control application.
- ARM Cortex-M family-microcontroller oriented processors for SoC application.

Specialist processors:

- ARM SercurCore-processor for high security Application.
- FPGA Cores-processor for fpga application.

SOFTWARE TOOLS used in ARM Processor Projects:

- Development Studio5.
- Keil MDK ARM.

OPERATING SYSTEM:

- Symbian OS.
- Palm OS.
- Windows CE.
- Linux.

FEATURES of ARM Processor:

- Load/store architecture.
- An orthogonal instruction set.
- Mostly single-cycle execution.
- Enhanced power-saving design.
- 64 and 32-bit execution states for scalable high performance.
- Hardware virtualization support.
- Inexpensive

Applications of ARM Processor Projects

ARM chip used in

- Raspberry Pi.
- Beagle Board.
- Beagle Bone.
- Panda Board.
- Single-board computers.
- Smartphone's.
- Tablets.
- Wearables.
- Mixed signal device.
- Microcontroller.
- Smart sensors.
- Automatic body electronics and airbags.
- Networking and server.
- Automatic breaking system.

- Heart of advance digital products.
- To enables a smaller die size for the integrated circuitry (IC).
- To provide outstanding performance at a fraction of the power demand of CISC (complex instruction set computing) devices.

Sample ARM Processor Projects.

SI	IEEE ARM Projects Titles.
1	Axially Extended-Volume C-Arm CT Using a Reverse Helical Trajectory in the Interventional Room.
2	Operator-based vibration control for an L-type arm of crane systems using piezoelectric actuator.
3	Development of two degrees of freedom deterministic parallel robotic arm unit.
4	Human hand tracking using MATLAB to control Arduino based robotic arm.
5	Simulation and study of robotic slave arm operating envelope.
6	Application of dual-arm robot in biomedical analysis: Sample preparation and transport.
7	Real time kinect based robotic arm manipulation with five degree of freedom.
8	Vision-based 3D motion reconstruction of octopus arm swimming and comparison with an 8-arm underwater robot.
9	3-DOF Admittance Control Robotic Arm with a 3D Virtual Game for facilitated training of the hemiparetic hand.
10	Redundancy resolution for dual-arm robots inspired by human asymmetric bimanual action: Formulation and experiments.
11	Human arm pose modeling with learned features using joint convolutional neural network.
12	Classifying directions in continuous arm movement from EEG signals.
13	ARM: Anonymous rating mechanism for discrete power control.
14	Inverse engineering design and construction of an ABS plastic, six DOF robotic

	arm structure.
15	Single-arm helical antenna with width of arm varying periodically for tilted beam.
16	Wireless ARM-Based Automatic Meter Reading & control system (WAMRCS).
17	Accelerating software radio on ARM: Adding NEON support to VOLK.
18	Human Joint Angle Estimation with Inertial Sensors and Validation with A Robot Arm.
19	Non-complementary modulated arm width spiral design and application.
20	BRACON: Control system for a robotic arm with 6 degrees of freedom for education systems.
21	Single-feed four-arm curl antenna for circularly polarized radiation.
22	Design and ARM-Embedded Implementation of a Chaotic Map-Based Real-Time Secure Video Communication System.
23	Human Movement Training With a Cable Driven ARm EXoskeleton (CAREX).
24	Arm grasping for mobile robot transportation using Kinect sensor and kinematic analysis.
25	Development and implementation of a natural interface to control an industrial hydraulic robot arm.
26	ARM based induction motor fault detection using wavelet and support vector machine.
27	Performance/energy trade-off in scientific computing: the case of ARM big.LITTLE and Intel Sandy Bridge.
28	The transition arm multilevel converter — A concept for medium and high voltage DC-DC transformers.
29	Using a Noninvasive Decoding Method to Classify Rhythmic Movement Imaginations of the Arm in Two Planes.
30	2-DOF PID with reset controller for 4-DOF robot arm manipulator.
31	New FEM 3D model for arm-cuff interface simulation.
32	Optimal use of arm-swing for bipedal walking control.
33	Using Functional Electrical Stimulation Mediated by Iterative Learning Control and Robotics to Improve Arm Movement for People With Multiple Sclerosis.
34	Accurate garment surface analysis using an active stereo robot head with application to dual-arm flattening.

35	Ecological Active Vision: Four Bioinspired Principles to Integrate Bottom–Up and Adaptive Top–Down Attention Tested With a Simple Camera-Arm Robot.
36	Zero phase sequence voltage injection for the alternate arm converter.
37	A multilayer control for multirotor UAVs equipped with a servo robot arm.
38	Mechanism and control of robotic arm using rotational counterweights.
39	A Sensor-Based Dual-Arm Tele-Robotic System.
40	A review: Control area network (CAN) based Intelligent vehicle system for driver assistance using advanced RISC machines (ARM).
41	Control design and implementation of intelligent vehicle with robot arm and computer vision.
42	Steerability analysis on slopes of a mobile robot with a ground contact arm.
43	Detecting Elementary Arm Movements by Tracking Upper Limb Joint Angles with MARG Sensors.
44	An underactuated wearable arm-swing rehabilitator for gait training.
45	Schedulability and Scheduling Analysis of Dual-Arm Cluster Tools with Wafer Revisiting and Residency Time Constraints Based on a Novel Schedule.
46	Model predictive position/force control of an anthropomorphic robotic arm.
47	Scheduling and Analysis of Start-Up Transient Processes for Dual-Arm Cluster Tools With Wafer Revisiting.
48	Using synergies in dual-arm manipulation tasks.
49	Human-Like Behavior Generation Based on Head-Arms Model for Robot Tracking External Targets and Body Parts.
50	Design and Fabrication of a Long-Arm Comb-Drive Rotary Actuator With Externally Mounted Mirror for Optical Applications.