

Skills and **technologies** for advanced **product** development

To create is a tougher challenge than to replicate. If your business is prototyping cutting-edge products using state-of-the-art technologies, you know what we mean. But to meet modern product development timetables, you need direct access to the advanced knowledge each new product demands.

Universal's prototyping services will help you solve difficult assembly issues quickly and cost-effectively, to confidently prepare for volume production. From initial consultation, to first article build, and new product introduction at one or more manufacturing sites, you can rely on our experienced Laboratory Services staff and specialist research and development facilities. Use our prototyping services to quickly deliver quality-engineered products, and gain valuable market advantages.

Engineer Success Into Each New Product, From The Get-Go

OEMs and prototype specialists leverage our skills at all stages, for fast turnaround and cost-effective, reliable, high quality products:

- Cutting-edge process knowledge gained from our co-operation with leading research foundations
- Expertise to assemble complex devices involving new components, materials, products, and processes
- Industry-first equipment innovations to overcome difficult prototyping challenges
- Technology-inspired design for manufacture
- First article build, product and process development
- New product introduction including process transfer

Short-Cut The Learning Curve For Emerging Technologies

We utilize the knowledge developed in our research to select materials, and recommend, design, and develop processes:

- Lead free
- BGA
- Flip chip
- Fine pitch CSP
- Optoelectronic components
- Advanced interconnect technologies
- Advanced, automated back-end assembly



Services from pre-prototype to post-production

Access Universal's prototyping services skills and technologies at the beginning of each project, and through to completion:

- First article build for proof of concept
- Design review of components and materials
- Assistance with component selection and PCB design
- Material selection assistance
- Assemble complex products involving new components, materials, products and processes Process development for unusual assemblies
- Recommendations for yield and reliability improvement
- Optimization of process parameters
- Develop basic processes for duplication at manufacturer's site
- Process implementation at manufacturing site

Superior Project DNA

Universal prototyping services engineer superiority into the product and processes, delivering an inherent advantage in tough, global markets:

- Robust processes for high yield assembly, from the start
- Shortened development cycle and time to market
- Highly cost effective process implementation

We have completed several hundred prototype projects for customers within the last 12 months alone, using state-of-the-art assembly lines at the Binghamton SMT Laboratory

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