

ANDY TWOMEY

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Designer specializing in design systems and accessibility, with 15 years in higher education at Tufts, Harvard Medical School, and Bentley University. I design and build in code: component libraries, accessibility standards, and the small web apps that sit on top of them. At Harvard Medical School I built a shared component library behind four products; at Bentley I built an email design system and production tools that cut build time 40%, and founded a 15-member, university-wide Accessibility Working Group. Recently completed an M.S. in Human Factors in Information Design.

EXPERIENCE

Bentley University

Design Engineer (Associate Director, Communications Platforms) | 2025–Present

- Designed and built a suite of email production tools on top of the Slate email design system, cutting production time 40% and letting producers build without touching code.
- Lead front-end and UX systems implementation across communications platforms, defining interaction standards and responsive design patterns.
- Lead information architecture and content modeling for content migrations between platforms, producing site maps, content matrices, and implementation-ready documentation.

UX Lead, Accessibility & Design Systems (Associate Director, Digital Design) | 2023–2025

- Founded and led a 15-member Accessibility Working Group spanning six divisions, producing a university-wide accessibility resource with introductory guidelines and role-based tracks for content, design and development, and compliance.
- Built an email design system for Slate, with component and template libraries, a QA process, and division-level theming, improving consistency across campaigns.
- Proposed, designed, and built the front end of Class Notes, a searchable alumni archive of 250+ notes (1940–2026); cut publishing time from up to six months to minutes and drew 13,040 sessions over 22 months. Validated with a moderated usability study.
- Directed award-winning digital initiatives and reusable microsite components adopted organization-wide.
- Created custom child themes for flagship feature articles.
- Co-presented “Designing for Everyone: The Essentials of Digital Accessibility” at the Bentley Alumni Conference and led internal workshops on accessibility and UX.

Harvard Medical School

Lead UI Designer, Product Development | 2021–2023

- Directed UI strategy for large-scale online course delivery during pandemic expansion.

- Built the HMX design system, a shared component library behind four products: an edX course platform supporting dozens of courses, its interactives, a partner dashboard, and a marketing site, improving accessibility and responsiveness across all four.
- Led UX design for a continuing-education initiative in collaboration with Google's YouTube team.
- Designed interactive learning modules embedded in LMS medical courses, partnering with instructional designers to translate complex clinical concepts into engaging user interactions.
- Conducted usability testing following LMS upgrades to identify and resolve design and accessibility issues.

Tufts University

Web Specialist → Web Designer → Senior UI Designer, Digital Services | 2011–2021

- Designed and developed websites, interactive fundraising applications, and email campaigns, supporting initiatives that contributed to \$1.5B in raised funds.
- Served as design lead for the Digital Services team, creating reusable templates, standardizing processes, and providing strategic guidance to business partners.
- Conceived, designed, and developed an interactive fiscal year-end report platform and reusable design system, enabling teams to adapt it to evolving content needs.
- Led design and development for the email marketing team on Salesforce Marketing Cloud and HubSpot.
- Managed freelancers and mentored colleagues, fostering skill development, accessibility awareness, and a culture of user-centered design.

EDUCATION

M.S. Human Factors in Information Design (2026) – Bentley University

M.A. Interactive Design – Savannah College of Art and Design (SCAD)

Certificate in UX Design – Bentley University

B.S. Digital Arts, Magna Cum Laude – Springfield College

SKILLS

Design systems: Component libraries, design tokens, interaction and state specification, documentation, adoption and governance, email design systems

Accessibility: WCAG AA/AAA, inclusive design, keyboard and screen reader testing, contrast and color-blindness validation, SiteImprove

Design: UX and UI design, product design, interaction design, information architecture, content modeling, wireframing, prototyping, responsive and visual design, brand and graphic design

Research: Usability testing, moderated think-aloud studies, user research, heuristic evaluation, analytics

Build: HTML, CSS (Grid, Flexbox), JavaScript, jQuery, JSON, Bootstrap, front-end prototyping, Git

Tools & platforms: Figma, Sketch, Adobe Creative Suite, Jira, Drupal, WordPress, Slate, Salesforce Marketing Cloud, HubSpot, edX and other LMS platforms